	No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
BENGAL.—(*Contd.*)							
		Central Districts.—(Contd.)	1873.				
COOCH BEHAR DIVISION.	16	Darjeeling ...	May 24th	0·10	Fair ...	The young crops as reported last week are doing well.	
	17	Julpigoree ...	„ 24th	0·04	Exceedingly hot and sultry: rain, which is now needed, began to fall gently on Saturday morning. The weather at the time of report is as cool as it has been hot during the week.	Rice and jute doing well, but rain needed for the former.	Small-pox is prevalent in many parts of the district. Worst among the Bhooteahs in and near Buxa. The 38th Native Infantry at Buxa suffered from small-pox, and not from cholera as was reported by the daily papers.
		Cooch Behar ...	„ 24th	Nil	Hot. At the end of the week some thunder and rain, though scarcely any fell in the sudder station.	The aus dhan requires rain.	
		Eastern Districts.					
DACCA DIVISION.	18	Dacca ...	„ 27th*	0·1	Weather very hot. Occasional local showers.	Prospects of crops good. Teel being cut in excellent order.	
	19	Furreedpore ...	„ 24th	0·12	Weather extremely close and hot. The thermometer has been higher than it has registered for the last sixteen or twenty years.	The young paddy and jute very promising at present are likely to suffer, unless there is more rain shortly.	
	20	Backergunge ...	„ 24th	Nil	Oppressively hot ...	Good.	
	21	Mymensing ...	„ 24th	0·74	Hot weather during the early part of the week. Rainy with fresh breezes subsequently.	Very favorable.	
	22	Sylhet ...	„ 17th	0·96	Very hot this week, the only hot weather of this year.	Good. More especially in the low lands to the west and south-west of the district, where the dry weather has given the ryots a crop of boro dhan better than has been known for some years. More rain wanted for aus and amun, also for tea.	Cholera has broken out in several places. Worst eastward in Latu and Jaintia.
	23	Cachar ...	„ 17th	1·32	Hot and unpleasant; some heavy lightning.	Rain much wanted; ploughing for early crop at a stand-still.	
CHITTAGONG DIVISION.	24	Chittagong ...	„ 17th	Nil	Fine, dry and hazy in the distance; oppressively hot, especially the last two or three days.	Rain would do good to the tea; but other crops are reported to be doing well.	Cholera has not yet disappeared from the northern seaboard, but appears to be gradually dying out. There is a good deal of fever, both in the town and interior
	25	Noakhally ...	„ 17th	Nil	The weather has been very hot and close during the week.	Chillies, sesamum, pulses, partially damaged by rain; reaping of these crops nearly completed. Ploughing of lands nearly completed for sowing the dhan.	
	26	Tipperah ...	„ 24th	Nil	Excessively hot, unequalled for years past, but rain seems to be impending.	More rain is now wanted for the sowings.	
	27	Chittagong Hill Tracts	„ 17th	Nil	Excessive heat throughout the whole week.	The hill people are busily engaged in cleaning their already burnt jooms. The grain already sown has germinated in some places, and the young plants are dying for want of rain.	
		Hill Tipperah ...	„ 17th	Nil	Very hot and unsettled for the greater part of the week.	Ploughing and sowing going on.	Cholera has nearly disappeared.
BEHAR.							
PATNA DIVN.	28	Patna ...	„ 27th*	Nil	Weather seasonable ...	No crops on the ground ...	Cases of cholera and small-pox are reported to be prevalent, but not in an epidemic form.
	29	Gya ...	„ 24th	Nil	Seasonable ...	Sugarcane growing fairly. Mango crop good.	
	30	Shahabad ...	„ 24th	Nil	Very hot, but seasonable with high west wind.	Nothing new ...	A few cases of sporadic cholera and choleraic diarrhœa here and there.

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* Telegram of the 27th May received on the same day.

	No.	District.	Date of return from each district.	Rainfall at Sudder station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
BEHAR.—(*Contd.*)			1873.				
PATNA DIVISION.—(*Contd.*)	31	Tirhoot ...	May 24th	Nil	Rain much needed ...	The prospect of the indigo crop continues favorable; that of cheena, moong, cotton, and sugarcane is also good.	
	32	Sarun ...	„ 24th	Nil	Weather very hot with west wind.	The prospect of indigo crop continues favorable; that of cheena, moong, sugarcane, and boro dhan is also good. Rain is needed for indigo, as the moisture in the fields is fast drying up.	
	33	Chumparun ...	„ 24th	Nil	Alternate west and east hot winds.	Cultivation going on, but rain wanted.	
BHAUGULPORE DIVN.	34	Monghyr ...	„ 24th	Nil	Fair with hot west winds.	Rain wanted to enable cultivators to break up the ground.	
	35	Bhaugulpore ...	„ 27th*	0·03	Wind chiefly east ...	Rain wanted throughout the district.	Small-pox still prevalent.
	36	Purneah ...	„ 24th	Nil	Strong east wind; rain threatening.	Rain wanted for the bhadoi crops.	
	37	Sonthal Pergunnahs ...	„ 24th	Nil	Exceedingly hot and sultry; clouds gathering, portending a change in the weather.	All ploughing stopped for the last week. No crops in the ground at present.	
ORISSA.							
ORISSA DIVN.	38	Cuttack ...	„ 27th	0·02	Rained at Jajpore sub-division.	Ploughing general.	
	39	Pooree ..	„ 17th	Nil	Cloudy with occasional lulls in the prevailing wind.	Ploughing going on throughout the district. The aus prospects are encouraging. There is no complaint with reference to any species of crop.	
	40	Balasore ...	„ 24th	Nil	Very warm and threatening rain.	Ploughing is in full swing.	
CHOTA NAGPORE.							
		South-West Frontier Agency.					
	41	Hazareebaugh ...	„ 24th	Nil	Weather seasonable with strong hot westerly wind. Occasionally cloudy.	No crops on the ground ...	Small-pox still prevalent.
	42	Lohardugga ...	„ 24th	Nil	Very hot, but seasonable.	The low land rice is being sown in parts of the district.	
	43	Singbhoom ...	„ 17th	Nil	The rains have ceased, and the weather is again hot and dry.	Goondli and kheri in course of sowing.	
	44	Maunbhoom ...	„ 24th	Nil	Clear and much hotter ...	The early crops of rice, teel, cotton and sugarcane have not yet suffered, but rain is now wanted.	Cholera still prevalent in some places.
ASSAM AND ADJACENT HILLS.							
	45	Goalparah ...	„ 17th	0·24	No rain during the week, except on Sunday. Very hot and close.	Prospects of aus crop everywhere good. The young jute thriving; in some places sowing is still continued.	Some cases of small-pox at the sudder station.
	46	Kamroop ...	„ 26th†	1·20	The early part of the week was dry and hot, and during the latter part easterly breeze prevailed.	Prospects of aus crops, tea, cotton, and sugarcane, not favorable for want of rain.	Choleraic diarrhœa is still very prevalent.
	47	Durrung ...	„ 17th	1·06	Temperature comparatively low; strong north-east wind prevailing.	Weather too cold for tea: the leaf requires more sun to bring it out. Sugarcane being planted. Weather favorable for its cultivation.	
	48	Nowgong ...	„ 17th	0·80	Showery at the beginning of the week; but very hot, bright, and sunny, with clear weather the past few days.	Spring crops doing well. The change in the weather will, it is hoped, benefit tea cultivation.	The cattle murrain is on the whole reported to be decreasing, but it has shown itself in some fresh villages slightly.
	49	Seebsaugor ...	„ 17th	4·18	Fair day with heavy rain and thunder-storms at night.	Ahoo dhan doing well. Nurseries for seed dhan commenced. Tea prospects good.	

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* Telegram of the 27th May received on the same day.

† Telegram of the 26th May received on the 27th.

No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
	ASSAM AND ADJACENT HILLS.—(*Contd.*)	1873.				
50	Luckimpore ...	May 17th	2·16	Weather throughout the week was unseasonably cold and wet.	Weather unfavorable for all tea operations, but favorable for other crops.	A few cases of choleraic diarrhœa occurred during the week, otherwise general health extremely good. Cholera still in parts of North Luckimpore sub-division.
51	Naga Hills ...	„ 10th	1·31	The weather has been much the same as last week, but with slightly less rain in the sudder, and much more in the district.	Good everywhere at present.	
52	Khasi & Jynteah Hills	„ 17th	Nil	Weather has been warm during the week. High winds prevailing.	The prospects of the crops have been unchanged since last report. Rain wanted in the Jynteah Hills.	No cases of cholera reported during the week.
53	Garo Hills ...	„ 17th	Nil	The week has been a very hot one; high winds nearly every day, except 17th. Atmosphere rather hazy.	Rain is much wanted for the young rice and other crops; this hot dry weather is very unfavorable.	

Published for general information.

CALCUTTA,
The 27th May 1873.

H. J. S. COTTON,
Offg. Asst. Secy. to the Govt. of Bengal.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

Division.	District.	Station.	Rain from 4th to 10th May 1873.	Rain from 11th to 17th May 1873.	Rain from 1st January 1873.		Remarks.
					Inches.	Up to date.	
BENGAL.			Inches.	Inches.	Inches.	1873.	
	Western Districts.						
Burdwan.	Burdwan ...	Burdwan	1·77	Nil.	8·88	17th May	
		Cutwa	1·07	ditto ...	6·30	ditto.	
		Culna	2·24	ditto ...	6·52	ditto.	
		Bood-Bood	3·03	ditto ...	6·77	ditto.	
		Raneegunge	1·77	ditto ...	4·44	ditto.	
		Jehanabad	2·03	ditto ...	5·29	ditto.	
	Bancoorah ...	Bancoorah	1·48	ditto ...	8·88	ditto.	
	Beerbhoom ...	Sooree	0·47	0·04	1·96	ditto.	
	Midnapore ...	Midnapore	6·48	0·89	10·51	ditto.	
		Tumlook	2·98	0·15	6·32	ditto.	
		Gurbetta	1·55	0·45	6·54	ditto.	
		Contai ... Dy. Collr.'s Office...	1·18	0·14	3·77	ditto.	
		Exe. Engr.'s Office	1·88	0·25	5·40	ditto.	
	Hooghly ...	Hooghly	2·64	0·20	7·33	ditto.	
		Serampore	3·50	Nil.	6·88	ditto.	
	Howrah ...	Howrah	2·70	0·01	6·16	ditto.	
	Central Districts.						
Presidency.	24-Pergunnahs ...	Saugor Island	1·73	0·10	5·43	ditto.	
		Calcutta	2·47	Nil.	5·84	ditto.	
		Alipore... Dispensary ...	1·82	ditto ...	5·43	ditto.	
		Jail	2·16	ditto ...	5·14	ditto.	
		Busseerhaut	1·45	ditto ...	3·36	ditto.	
		Baraset	1·40	ditto ...	4·47	ditto.	
		Diamond Harbour... ...	2·81	ditto ...	6·55	ditto.	
		Barripore	2·71	ditto ...	7·00	ditto.	
		Satkherah	1·94	ditto ...	5·92	ditto.	
		Barrackpore	3·26	ditto ...	6·72	ditto.	
		Dum-Dum	2·85	ditto ...	6·58	ditto.	
	Nuddea ...	Kishnaghur	1·39	ditto ...	6·37	ditto.	
		Bongong	0·11	0·50	3·95	ditto.	
		Meherpore	0·71	Nil.	4·50	ditto.	
		Chooadaugah	0·56	ditto ...	4·06	ditto.	
		Kooshtea	0·30	ditto ...	6·25	ditto.	
		Ranaghat	1·42	ditto ...	4·11	ditto.	
	Jessore ...	Jessore	1·45	0·12	5·46	ditto.	
		Nurail	3·10	Nil.	10·64	ditto.	
		Khoolneah	1·60	0·30	9·32	ditto.	
		Jenidah	1·81	Nil	6·74	ditto.	
		Bagirhaut	2·37	0·36	7·42	ditto.	
		Magoorah	1·68	0·27	9·65	ditto.	
Rajshahye.	Moorshedabad ...	Berhampore	0·11	Nil	2·74	ditto.	
		Ramporehaut	0·36	ditto ...	3·21	ditto.	
		City Moorshedabad ...	0·03	ditto ...	2·14	ditto.	
		Jungipore	1·55	ditto ...	2·85	ditto.	
		Azimgunge	Nil	ditto ...	3·03	ditto.	
		Lalgolla	0·57	Not rec.	3·07	ditto.	
	Dinagepore ...	Dinagepore	0·06	Nil	2·12	10th May ...	From 1st February.
	Maldah ...	Maldah	0·03	ditto ...	1·99	17th May.	
	Rajshahye ...	Beauleah	0·15	ditto ...	3·38	ditto.	
		Nattore	0·66	ditto ...	6·97	ditto.	
	Rungpore ...	Rungpore	Nil	ditto ...	9·73	ditto.	
		Bhowanigunge	0·28	ditto ...	6·72	ditto.	
		Titalya	1·20	ditto ...	9·07	ditto.	
	Bograh ...	Bograh	1·32	ditto ...	5·87	ditto.	
	Pubna ...	Pubna	0·27	ditto ...	9·21	ditto.	
		Serajgunge	0·90	ditto ...	3·99	ditto ...	Not received, 20th to 26th April.
Cooch Behar.	Darjeeling ...	Darjeeling Telegraph Office	Not rec.	Not rec.	9·51	30th April.	
		Hospital ...	2·46	0·18	10·58	17th May	
	Julpigoree ...	Julpigoree	1·97	Nil.	10·94	ditto.	
		Fallacotta	2·04	ditto ...	17·20	ditto.	
		Bodah	0·75	ditto ...	9·83	ditto.	
	Cooch Behar Tributary State ...	Cooch Behar	2·54	ditto ...	12·60	ditto.	
	Bhutan Dooars ...	Buxa	Not rec.	Not rec.	2·40	15th Mar.	
	Eastern Districts.						
Dacca.	Dacca ...	Dacca ... Telegraph Office ...	3·64	1·61	14·66	17th May.	
		Hospital ...	2·80	1·05	10·35	ditto.	
		Moonshegunge	2·98	1·82	13·27	ditto.	
		Manickgunge	2·13	0·08	9·40	ditto.	
	Furreedpore ...	Furreedpore	1·23	0·14	13·47	ditto.	
		Goalundo	0·81	0·15	5·37	ditto.	
	Backergunge ...	Burrisaul	0·65	0·35	6·37	ditto.	
		Perozepore	3·17	0·03	7·01	ditto.	
		Madaripore	2·85	2·33	13·66	ditto.	
		Patooakhally	2·36	0·28	9·24	ditto.	
		Dowlat Khan	3·50	Nil.	9·87	ditto.	
	Mymensing ...	Mymensing	0·50	ditto ...	6·40	ditto.	
		Jamalpore	1·04	ditto ...	10·98	ditto.	
		Atteah	2·65	ditto ...	8·21	ditto.	
		Kishoregunge	0·34	0·52	7·97	ditto.	
	Sylhet ...	Sylhet	1·73	0·81	24·21	ditto.	
	Cachar ...	Cachar	0·48	1·32	19·69	ditto.	
		Hylakandy	1·18	Not rec.	20·11	10th May	
		Koyah	2·62	0·46	14·32	17th May	
Chittagong.	Chittagong ...	Chittagong Telegraph Office	1·80	Nil.	9·00	17th May	
		Jail	1·50	ditto ...	10·91	ditto.	
		Cox's Bazar	2·30	ditto ...	13·20	ditto.	
	Noakhally ...	Noakhally	2·95	ditto ...	19·06	ditto.	
	Tipperah ...	Comillah	2·30	ditto ...	12·44	ditto.	
		Brahmanbariah	1·64	ditto ...	12·62	ditto.	
	Chittagong Hill Tracts	Rungamutee Hill	2·14	ditto ...	7·56	ditto.	
	Hill Tipperah ...	Hill Tipperah	1·99	ditto ...	13·39	ditto.	

DIVISION.	DISTRICT.	STATION.	Rain from 4th to 10th May 1873.	Rain from 11th to 17th May 1873.	RAIN FROM 1ST JANUARY 1873.		REMARKS.
					Inches.	Up to date.	
	BEHAR.		Inches.	Inches.	Inches.	1873.	
PATNA.	Patna	Patna	0·08	Nil	1·30	17th May	Not received, 13th to 19th April.
		Behar	0·10	ditto	1·17	ditto.	
		Barh	0·60	ditto	1·45	ditto.	Not received 13th to 19th April.
		Dinapore... Jail	Not rec.	ditto	1·16	ditto	„ 4th to 10th May
		Cantonment	0·10	ditto	0·55	ditto	„ 13th to 19th April.
	Gya	Gya	0·18	ditto	1·41	ditto.	
		Nowadah	0·60	ditto	1·34	ditto.	
		Aurungabad	1·36	ditto	2·26	ditto.	
		Jehanabad	0·38	ditto	1·36	ditto.	
	Shahabad	Arrah	0·70	ditto	2·14	ditto.	
		Sasseram	0·65	ditto	1·31	ditto.	
		Buxar	0·23	ditto	1·38	ditto.	
		Bhuboosh	0·36	ditto	5·86	ditto.	
	Tirhoot	Mozufferpore	Nil	ditto	5·00	ditto.	
		Durbhangah	0·16	ditto	2·51	ditto.	
		Hajipore	0·80	ditto	1·93	ditto.	
		Mudhubani	0·25	ditto	4·11	ditto.	
		Seetamaree	0·20	ditto	3·15	ditto.	
		Tajpore	Nil	ditto	3·22	ditto.	
	Sarun	Chuprah	ditto	ditto	2·99	ditto.	
		Sewan	ditto	ditto	1·91	ditto.	
	Chumparun	Moteehari	0·60	ditto	5·30	ditto.	
		Bettiah	Not rec.	Not rec.	5·25	3rd May	
BHAUGULPORE.	Monghyr	Monghyr	1·12	Nil	3·27	17th May	
		Begooserai	0·83	ditto	2·13	ditto.	
		Jamooie	0·70	ditto	1·93	ditto.	
	Bhaugulpore	Bhaugulpore	0·14	ditto	1·82	ditto.	
		Soopool	0·06	ditto	2·81	ditto.	
		Mudheypoorah	0·50	ditto	2·25	ditto.	
		Banka	0·36	ditto	2·23	ditto.	
		Sanborsa	0·70	ditto	2·56	ditto.	
	Purneah	Purneah	0·05	ditto	5·19	ditto.	
		Kishengunge	Nil	ditto	3·81	ditto.	
		Arrareah	ditto	ditto	4·62	ditto.	
	Sonthal Pergunnahs	Deoghur	0·11	ditto	3·70	ditto.	
		Jamtara	0·07	ditto	0·94	ditto.	
		Rajmehal	Nil.	ditto	1·95	ditto.	
		Pakour	Not rec.	ditto	0·40	ditto	Not received 4th to 10th May.
		Nya-Doomka	1·18	ditto	4·08	ditto.	
		Godda	0·50	ditto	2·43	ditto.	
	ORISSA.						
ORISSA.	Cuttack	Cuttack Telegraph Office	0·10	ditto	4·20	ditto.	
		Hospital	0·32	ditto	4·69	ditto.	
		Jajipore	2·20	1·40	5·75	ditto.	
		Kendrapara	3·30	Nil	5·20	ditto.	
		Jugutsingpore	0·20	0·32	4·54	ditto.	
		False Point	0·45	Nil	2·25	ditto.	
	Pooree	Pooree	0·05	ditto	2·01	ditto.	
		Khurdah	0·21	0·16	1·37	ditto.	
	Balasore	Balasore	2·75	Nil.	5·44	ditto.	
		Bhuddruck	1·32	0·93	3·17	ditto.	
		Jellasore	0·98	Nil	2·00	ditto	From 1st April.
		Sorah	0·15	ditto	0·15	ditto	ditto.
		Chandbally	0·72	ditto	1·37	ditto	ditto.
	Cuttack Tributary Mehals	Sambalpore	Not rec.	Not rec.	1·33	26th April.	
	CHOTA NAGPORE.						
	SOUTH-WESTERN FRONTIER AGENCY.						
	Hazareebaugh	Hazareebaugh Jail	0·21	Nil.	1·26	17th May	
		Dispensary	0·29	ditto	1·54	ditto.	
		Pachumba	0·45	0·25	2·77	ditto.	
	Loharduggah	Ranchee	0·10	0·52	2·84	ditto.	
		Palamow	0·49	0·38	1·72	ditto.	
	Singbhoom	Chyebassa	2·05	Nil	6·21	ditto.	
	Maunbhoom	Purulia	0·82	0·35	5·31	ditto	
		Gobindpore	0·50	Nil	3·80	ditto	
	ASSAM & ADJACENT HILLS.						
	Goalparah	Goalparah	3·76	0·24	20·25	ditto.	
		Dhoobree	7·00	Nil	15·55	ditto.	
	Kamroop	Gowhatty	2·78	0·59	16·21	ditto.	
		Burpettah	2·33	1·89	19·49	ditto.	
	Durrung	Tezpore	1·98	Not rec.	12·26	10th May	
		Mungledye	3·45	ditto	17·18	ditto.	
	Nowgong	Nowgong	0·65	0·77	10·28	17th May	
	Seebsaugor	Seebsaugor	0·72	Not rec.	22·71	10th May	
		Golaghat	0·43	ditto	16·73	ditto.	
		Jorehaut	0·43	ditto	15·22	ditto.	
	Luckimpore	Debrooghur	3·73	ditto	21·26	ditto.	
		North Luckimpore	Not rec.	ditto	11·87	26th April.	
		Suddya	2·12	ditto	19·36	10th May	
	Naga Hills	Samoogoodting	Not rec.	ditto	0·57	15th Feb.	
	Khasi and Jynteah Hills.	Shillong	1·16	ditto	10·92	10th May	
		Jaowai	1·50	ditto	13·41	ditto.	
		Cherrapoonjee	2·28	ditto	39·13	ditto	
	Garo Hills	Benares	3·16	Nil	17·96	17th May	
		Tura	0·41	ditto	0·63	ditto.	
		Akyab	Nil	ditto	4·10	ditto.	

CALCUTTA,
The 24th May 1873.

H. F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

Meteorological Telegraphic Report for the period 18th to 24th May 1873.

Stations.	Date.	Hour.	Barometer reduced to 32°.	Barometer reduced to sea-level.	Thermometer.		Humidity Sat. =100.	Wind.		Rain.	Clouds.	Weather initials.
					Dry.	Wet.		Direction.	* Velocity.			
Calcutta.	May 18th	10	29·749	29·767	92·5	79·8	54	N W	...	...	......	b
		16	29·659	29·677	102·8	74·5	22	N W	...	...	......	b
	19th	10	29·754	29·772	93·7	84·3	65	S S W	...	...	......	b
		16	29·621	29·639	103·9	74·5	21	N W	...	...	......	b
	20th	10	29·733	29·751	93·0	82·4	62	W S W	...	...	......	b
		16	29·613	29·631	104·5	77·5	26	W N W	...	...	......	b
	21st	10	29·691	29·709	94·8	83·0	58	W S W	...	...	......	b
		16	29·558	29·576	106·0	77·5	24	S W	...	...	......	b
	22nd	10	29·649	29·667	95·6	84·9	62	S	...	...	......	b
		16	29·536	29·554	100·4	80·5	39	S S W	...	...	S	
	23rd	10	29·629	29·647	95·0	83·0	58	S W	...	...	......	b
		16	29·522	29·540	97·2	84·6	57	S by W	...	...	......	b
	24th	10	29·702	29·720	92·2	81·5	61	S S W	...	...	......	scuds.
		16	29·590	29·608	95·7	83·0	57	S E	...	...	K	
Saugor Island.	May 18th	10	29·763	29·769	92	82	63	S W	15·4	...	......	b
		16	29·666	29·672	95	85	64	S W	13·5	...	CS	
	19th	10	29·775	29·781	92	84	70	W S W	17·5	...	......	
		16	29·664	29·670	91	85	77	S	13·3	...	K	
	20th	10	29·755	29·761	92	84	70	S W	16·5	...	......	
		16	29·644	29·650	91	84	73	S S W	13·4	...	......	b
	21st	10	29·720	29·726	91	84	73	S W	15·5	...	......	b, scuds
		16	29·600	29·606	91	85	77	S	14·9	...	......	b
	22nd	10	29·672	29·678	91	84	73	S S W	16·7	...	......	b, m
		16	29·580	29·586	91	85	77	S	17·0	...	KS	m, scuds.
	23rd	10	29·672	29·678	91	84	73	S S W	21·0	...	......	b, scuds.
		16	29·557	29·563	90	83	73	S	22·5	...	KS	m, b, scuds
	24th	10	29·707	29·713	90	83	73	S	22·2	...	K	m, scuds.
		16	29·596	29·602	90	82	69	S	19·0	...	KS	m, scuds.
Chittagong.	May 18th	10	29·719	29·810	90	83	73	S	3·5	...	K	b
		16	29·629	29·719	95	80	49	S W	5·5	...	......	b
	19th	10	29·739	29·830	89	82	73	W S W	3·5	...	K, KS	b
		16	29·619	29·709	94	80	52	S W	7·7	...	......	b
	20th	10	29·709	29·800	91	84	73	S S W	5·4	...	K	b
		16	29·612	29·703	92	82	63	S W	7·2	...	......	b
	21st	10	29·689	29·780	91	83	70	S W	4·3	...	K	b
		16	29·575	29·666	91	82	66	S S W	10·2	...	......	b
	22nd	10	29·672	29·763	89	83	73	S E	6·6	...	K	b
		16	29·555	29·646	90	82	69	S	12·1	...	......	b
	23rd	10	29·679	29·770	90	81	66	S S E	8·5	...	K	b
		16	29·567	29·658	90	81	66	S	6·8	...	......	b
	24th	10	29·722	29·813	90	80	63	S W	8·2	...	CK, K	b, m
		16	29·620	29·711	89	80	66	S W	12·4	...	......	b
Madras.	May 17th	10	29·834	29·864	91	79	56	S by E	12	...	......	b, c.
		16	29·719	29·749	89	76	52	S E by S	13	...	......	b
	18th	10	29·832	29·862	90	79	59	S E	9	...	......	c
		16	29·745	29·775	88	78	62	S E by S	13	...	......	b
	19th	10	29·829	29·859	89	78	59	S E by S	9	...	......	b
		16	29·736	29·766	88	75	52	S E by E	10	...	......	b
	20th	10	29·815	29·845	91	79	56	S E by E	9	...	......	b
		16	29·712	29·742	90	79	59	S E	11	...	......	b
	21st	10	29·795	29·825	92	80	57	S S E	10	...	......	c
		16	29·677	29·707	90	80	63	S E	12	...	......	b
	22nd	10	29·747	29·777	94	76	40	S S W	12	...	......	b
		16	29·625	29·655	91	80	60	S E	11	...	......	b
	23rd	10	29·727	29·757	93	80	54	S by W	5	...	......	b
		16	29·619	29·649	91	83	70	S E by E	12	...	......	b
Cuttack.	May 18th	10	29·690	29·771	96	79	44	W	4·9	...	......	b
		16	29·562	29·643	104	76	24	W S W	2·8	...	K, N, C	
	19th	10	29·690	29·771	95	81	52	N N W	5·4	...	......	b
		16	29·552	29·633	107	75	19	N E	3·2	...	......	b
	20th	10	29·660	29·761	96	79	44	W S W	4·3	...	......	b
		16	29·525	29·606	107	76	20	N N W	2·7	...	K	b
	21st	10	29·650	29·731	96	82	53	S	4·9	...	......	b
		16	29·511	29·592	103	81	36	S W	4·0	...	......	b
	22nd	10	29·588	29·669	96	83	56	S S W	6·6	...	......	b
		16	29·473	29·554	99	80	41	S S W	5·3	...	K, N, C	
	23rd	10	29·588	29·669	95	81	52	S S W	8·7	...	......	b
		16	29·453	29·534	99	82	46	S S W	9·2	...	C, K, N	
	24th	10	29·610	29·691	93	81	57	S	8·2	...	C, K	b
		16	29·484	29·565	96	79	44	S S W	14·1	...	C	b
Akyab.	May 18th	10	29·770	29·791	89	83	76	W	0·8	...	......	b
		16	29·676	29·697	89	82	73	W	5·5	...	......	b
	19th	10	29·790	29·811	90	82	69	W	0·6	...	......	b
		16	29·654	29·675	90	84	76	W	7·8	...	......	b
	20th	10	29·768	29·789	90	83	73	W	1·6	...	......	b
		16	29·646	29·667	89	83	76	W S W	5·5	...	......	b
	21st	10	29·748	29·769	91	82	66	W S W	1·4	...	......	b
		16	29·666	29·687	90	84	76	W	5·6	...	......	b
	22nd	10	29·739	29·760	89	81	69	W	0·4	...	......	b
		16	29·627	29·748	91	83	70	S W	2·0	...	......	b
	23rd	10	29·758	29·779	90	80	63	S W	0·2	...	......	b
		16	29·649	29·670	89	80	66	W S W	0·5	...	......	b
	24th	10	29·758	29·779	92	82	58	S	...	...	......	b
		16	29·656	29·677	91	80	60	W S W	4·3	...	......	b

* Velocity of wind in miles per hour.

CALCUTTA,
The 24th May 1873.

H. F. BLANFORD,
Meteorological Reporter to the Government of Bengal.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 15th to 21st May 1873.

Month.	Date.	Mean reduced barometer.	THERMOMETER.			Mean dry bulb.	Mean wet bulb.	Computed mean dew-point.	Mean degree of humidity.	WIND.			Rain.	Moon's phases.	GENERAL REMARKS.
			Highest reading.	Lowest reading.	Max. solar radiation.					Prevailing direction.	Max. pressure.	Daily velocity.			
		Inches.	°	°	°	°	°	°			lbs.	Miles	In.		
May ...	15th	29·742	100·0	81·8	144·2	89·9	82·0	77·3	0·67	S & S W	...	159·6	...	...	Chiefly clear. Thunder at 5 P.M. Lightning on N at 8 P.M.
	16th	·734	100·5	82·0	143·7	90·3	80·9	75·3	·62	S W & variable	...	145·1	...	...	Cirri and clear.
	17th	·698	101·7	82·6	148·3	91·1	79·1	71·9	·55	variable	0·2	129·6	...	...	Clear and cirrocumuli.
	18th	·697	103·0	83·2	146·5	91·4	79·2	71·9	·54	W by N	...	124·9	...	...	Clear.
	19th	·687	104·2	83·0	151·2	92·0	81·1	74·6	·58	S W & W by S	...	139·9	...	☽	Clear.
	20th	·669	104·5	83·3	150·5	92·1	81·7	75·5	·59	W & S S W	...	138·9	...	...	Clear.
	21st	·627	106·0	83·5	150·0	92·3	82·3	76·3	·60	S W & W S W	...	182·7	...	...	Clear.

The mean barometer, as likewise the dry and wet bulb thermometer, means are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants. The figures in Column 10 represent the humidity of the air, the complete saturation of which being taken at unity. The receiver of the lower rain gauge is 1½ feet, and that of the anemometer 70 feet 10 inches above the level of the ground. The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

		°
The extreme variation of temperature during the past seven days	...	24·2
The max. temperature during the past seven days	...	106·0
The max. temperature during the corresponding period of the past year	...	98·4
The mean humidity during the past seven days	...	0·59
The mean humidity during the corresponding period of the past year	...	0·70
		Inches.
The total fall of rain from 15th to 21st ... by lower rain gauge	...	Nil
by anemometer gauge	...	Nil
Ditto ditto ditto, average of nineteen previous years	...	1·06
Ditto ditto between the 1st January and the 21st May	...	5·84
Ditto ditto ditto, average of nineteen previous years	...	8·72

GOPEENAUTH SEN,
In charge of the Observatory.

The 23rd May 1873.

Weekly Return of Traffic Receipts on Indian Railways.

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic, for week ended 10th May 1873, on 156½ miles open.

	COACHING TRAFFIC.			MERCHANDISE AND MINERAL TRAFFIC.			Total receipts.
	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.		
		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	37,222	28,669 1 6	2,628 0 0	100,502 10	33,828 8 10	3,100 19 0	5,728 19 0
Or per mile of railway	238	183 3 0	16 15 10	642 0	216 2 6	19 16 4	36 12 2
For previous 18 weeks of half-year	583,686½	4,41,078 4 11	40,432 7 3	2,346,604 32	8,40,953 4 0	49,566 6 1	89,998 13 4
Total for 19 weeks	620,908½	4,69,747 6 5	43,060 7 3	2,447,107 2	8,74,781 12 10	52,667 5 1	95,727 12 4
COMPARISON.							
Total for corresponding week of previous year...	31,806½	20,384 6 2	1,868 11 5	168,959 30	28,882 9 0	2,647 11 5	4,516 2 10
Per mile of railway corresponding week of previous year	203	130 4 0	11 18 10	1,080 0	184 9 2	16 18 4	28 17 2
Total to corresponding date of previous year	611,443½	3,95,402 14 11	36,245 5 4	2,657,194·35	5,17,191 5 2	47,409 4 2	83,654 9 6

NALHATI STATE RAILWAY.

Approximate Return of Traffic, for week ended 10th May 1873, on 27¼ miles open.

		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	1,749	1,201 0 0	120 2 0	7,012 0	497 0 0	49 14 0	169 16 0
Or per mile of railway	64	44 0 0	4 8 0	257 0	18 0 0	1 16 0	6 4 0
For previous 18 weeks of half-year..	29,655	21,513 0 0	2,151 6 0	124,982 0	9,942 0 0	994 4 0	3,145 10
Total for 19 weeks ...	31,404	22,714 0 0	2,271 8 0	131,994 0	10,439 0 0	1,043 18 0	3,315 6 0
COMPARISON.							
Total for corresponding week of previous year	......	......	......	......	......	......	......
Per mile of railway corresponding week of previous year ...	......	......	......	......	......	......	......
Total to corresponding date of previous year	......	......	......	......	......	......	......

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic, for week ended 10th May 1873, on 28 miles open.

		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	5,571	1,005 0 0	100 10 0	14,342 0	445 0 0	44 10 0	145 0 0
Or per mile of railway	199	36 0 0	3 12 0	512 0	16 0 0	1 12 0	5 4 0
For previous 18 weeks of half-year...	132,741	21,059 0 0	2,105 18 0	346,766 0	11,198 0 0	1,119 16 0	3,225 14 0
Total for 19 weeks ...	138,312	22,064 0 0	2,206 8 0	361,108 0	11,643 0 0	1,164 6 0	3,370 14 0
COMPARISON.							
Total for corresponding week of previous year	5,069	883 13 6	88 7 8	11,015 24	288 1 6	28 16 2	117 3 10
Per mile of railway corresponding week of previous year	181	31 9 1	3 3 2	393 16	10 4 7	1 0 7	4 3 9
Total to corresponding date of previous year	143,540	21,238 4 9	2,123 16 6	322,999 34	9,776 2 3	977 12 4	3,101 8 10

EAST INDIAN RAILWAY—MAIN LINE.

Approximate Return of Traffic for week ended 17th May 1873, on 1,280 miles open.

		Rs. A. P.	£. s. d.	Mds. Srs.	Rs. A. P.	£. s. d.	£ s. d.
Total traffic for the week	112,274	1,16,761 10 10*	10,703 3 1	766,783 0	3,67,412 8 6*	33,679 9 7	44,382 12 8
Or per mile of Railway	......	91 3 6	8 7 3	......	287 0 8	26 6 3	34 13 6
For previous 19 weeks of half-year...	2,178,842	31,93,855 0 4	292,770 0 10	14,448,217 10	72,59,948 3 3	665,495 5 1	958,265 5 11
Total for 20 weeks ...	2,291,116	33,10,616 11 2	303,473 3 11	15,215,000 10	76,27,360 11 9	699,174 14 8	1,002,647 18 7
COMPARISON.							
Total for corresponding week of previous year	125,445	1,73,826 2 5	15,934 1 3	607 603 10	2,92,642 3 4	26,825 10 9	42,759 12 0
Per mile of railway corresponding week of previous year	......	135 12 10	12 8 11	.....	228 10 0	20 19 2	33 8 1
Total to corresponding date of previous year	2,210,028	33,26,911 14 2	304,966 18 5	13,959,538 0	78,12,624 8 11	716,157 5 0	1,021,124 3 5

---

* Steam Ferry proportion of through coaching traffic from 1st January to 17th May 1873 Rs. 7,995-12, and of through Goods from 1st January to 19th April 1873 Rs. 20,648-15-9, deducted from this week's traffic.

EAST INDIAN RAILWAY—JUBBULPORE LINE.

Approximate Return of Traffic for week ended 17th May 1873, *on* 223⅓ *miles open.*

	COACHING TRAFFIC.			MERCHANDISE AND MINERAL TRAFFIC.			Total receipts.
	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.		
		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	4,218	14,214 15 7	1,303 0 9	88,683 30	22,664 14 3	2,077 12 4	3,380 13 1
Or per mile of railway	......	63 9 8	5 16 7	......	101 6 6	9 5 11	15 2 6
For previous 19 weeks of half-year...	93,117	3,25,409 3 5	29,829 3 7	1,374,662 10	4,02,820 4 9	36,925 3 10	66,754 7 5
Total for 20 weeks ...	97,335	3,39,624 3 0	31,132 4 4	1,463,346 0	4,25,485 3 0	39,002 16 2	70,135 0 6
COMPARISON.							
Total for corresponding week of previous year	6,537	15,935 12 7	1,460 15 7	88,423 10	23,708 14 5	2,173 6 4	3,634 1 11
Per mile of railway corresponding week of previous year	......	71 4 10	6 10 8	......	106 1 3	9 14 6	16 5 2
Total to corresponding date of previous year	107,163	3,38,820 9 5	31,058 11 1	1,441,040 20	4,12,800 0 7	37,840 0 1	68,898 11 2

NALHATTEE STATE RAILWAY.

Approximate Return of Traffic for week ended 17th May 1873, *on* 27¼ *miles open.*

		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	2,259	1,562 0 0	156 4 0	5,601 0	363 0 0	36 6 0	192 10 0
Or per mile of railway	83	57 0 0	5 14 0	206 0	13 8 0	1 7 0	7 1 0
For previous 19 weeks of half-year	31,404	22,714 0 0	2,271 8 0	131,994 0	10,439 0 0	1,043 18 0	3,315 6 0
Total for 20 weeks ...	33,663	24,276 0 0	2,427 12 0	137,595 0	10,802 0 0	1,080 4 0	3,507 16 0
COMPARISON.							
Total for corresponding week of previous year	......	......	......	......	......	......	......
Per mile of railway corresponding week of previous year	......	......	......	......	......	......	......
Total to corresponding date of previous year	......	......	......	......	......	......	......

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SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, JUNE 4, 1873.

OFFICIAL PAPERS.

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REPORT ON THE STATE OF THE SALT MARKET FOR THE FOURTH QUARTER OF 1872-73.

No. 246B.,—Fort William, the 20th May 1873.

From—T. B. LANE, ESQ., Secretary to the Board of Revenue, Lower Provinces,
To—The Secretary to the Government of Bengal, Revenue Department.

A. MONEY, ESQ., C. B.

I AM directed by the Member in Charge to submit the following report on the state of the salt market for the fourth quarter of 1872-73, comprising the months of January, February and March last :—

2. The quantity of salt consumed (*i.e.*, the quantity of total clearances of salt of all descriptions) in the quarter under report amounted to 19,17,888 maunds, against 18,49,846 maunds in the previous quarter, and 17,91,119 maunds in the corresponding quarter of the previous year; and the total amount of duty levied was Rs. 62,33,136, against Rs. 60,12,000 and Rs. 58,21,137 in the previous and corresponding quarters, respectively.

	Mds.
January	200
February	...
March	100
Total ...	300

3. The quantity of Government salt sold at the Presidency under wholesale rowannahs amounted to 300 maunds, as shewn in the margin, giving a monthly average of 100 maunds, against 245 maunds in the corresponding quarter of the previous year. There were no sales during the preceding quarter.

4. There were no sales of Government salt at Pooree during the present or previous quarters of 1872-73. Neither were there any sales during the corresponding quarter of 1871-72. It may be here observed that the destruction of the remaining stock of Government salt at Pooree was sanctioned in Government order No. 5231, dated 10th December 1872.

5. The quantity of excise salt sold in Cuttack, Balasore, Pooree, and the 24-Pergunnahs during the present quarter, from the stock of the different seasons, and the quantity which remained in store at the close of the quarter are shown in the following table I:—

I.

	CUTTACK.			BALASORE.				POOREE.				24-PERGUNNAHS.	
	Manufactures of			Manufactures of				Manufactures of				Manufactures of	
	1869-70.	1870-71.	1871-72.	1869-70.	1870-71.	1871-72.	1872-73.	1869-70.	1870-71.	1871-72.	1872-73.	1871-72.	1872-73.
	Mds.	Mds. S.	Mds. S.	Mds. S.	Mds. S. C.	Mds. S. C.*	Mds. S	Mds. S.	Mds. S.	Mds.	Mds.	Mds.	Mds. S.
Balance at close of last quarter ...	20,214*	36,120 29	24,557 10	16,766 21	34,009 23 0	84,763 18 13	......	14,437 3	1,023 5	1,42,499	......	14,289	113 30
Manufactured during the quarter ...	......	......	......	......	......	......	48,580 10	......	......	2,966†	287 10	......	8,510 10
Total ...	20,214	36,120 29	24,557 10	16,766 21	34,009 23 0	84,763 18 13	48,580 10	14,437 3	1,023 5	1,45,465	287 10	14,289	8,624 0
DEDUCT—													
Sales during the quarter ...	6,678	3,310 0	......	4,930 0	4,132 14 4	31,828 0 0	......	920 0	318 0	48,593	......	5,000	......
Wastage ...	......	......	......	......	2,970 13 2	559 0 0	......	......	......	......	......	......	......
Total ...	6,678	3,310 0	......	4,930 0	7,102 27 6	32,387 0 0	......	920 0	318 0	48,593	......	5,000	......
Balance at close of the quarter ...	13,536*	32,810 29	24,557 10	11,836 21	26,906 35 10	52,376 18 13	48,580 10	13,517 3	705 5	96,872	287 10	9,289	8,624

* This includes 451 maunds of Pooree made salt in Futtehmookah Golah.
† This represents surplus salt ascertained on clearance of Golahs.

It will be observed from the above that the total clearances, or sales, of excise salt during the quarter under review amounted to 1,05,709 maunds, against 1,00,692 maunds in the previous quarter, and 87,308 maunds in the corresponding quarter of the previous year.

6. The subjoined Table II shows, comparatively, the total importation into the port of Calcutta, and the total clearances of sea-imported salt during the quarter under notice, and the corresponding quarters of the previous two years:—

II.

DESCRIPTION OF SALT.	4TH QUARTER OF 1870-71.		4TH QUARTER OF 1871-72.		4TH QUARTER OF 1872-73.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Liverpool Pungah ...	10,40,175	15,04,401	13,77,954	13,28,290	15,67,523	14,37,760
Foreign Kurkutch ...	70,903	1,40,763	82,875	1,80,344	92,152	1,32,521
Indian ditto ...	2,10,700	2,09,592	1,71,279	1,24,024	2,61,126	1,67,954
Ceylon ditto ...	......	12,556	......	1,500	544	544
Total ...	13,21,778	18,67,312	16,32,108	16,34,158	19,21,345	17,38,779

7. The following are the details of the Indian Kurkutch salt shown above:—

III.

FROM WHENCE IMPORTED.	4TH QUARTER OF 1870-71.		4TH QUARTER OF 1871-72.		4TH QUARTER OF 1872-73.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Kurrachee	......	1,400	......	......	......	......
Bombay	2,10,700	1,42,618	1,35,039	73,472	2,61,126	1,28,527
Madras	......	53,004	23,040	50,552	......	39,427
Ennore	......	12,570	......	......	......	......
Covelong	......	......	13,200	......	......	......
Tuticorin	......	......	......	......	......	......
Total ...	2,10,700	2,09,592	1,71,279	1,24,024	2,61,126	1,67,954

8. Table IV shows the quantity of sea-imported salt remaining in the warehouses at the close of the quarter, as compared with the results of the previous four quarters:—

IV.

WHERE STORED.	4th quarter of 1871-72.	1st quarter of 1872-73.	2nd quarter of 1872-73.	3rd quarter of 1872-73.	4th quarter of 1872-73.
	Mds.	Mds.	Mds.	Mds.	Mds.
Sulkea Government golahs	21,68,612	19,30,502	11,76,239	16,70,117	17,63,249
Ditto private golahs	......	......	......	......	.. ...
Ghoosery golahs	93,574	93,574	19,682	5,603	......
Seebpore golahs	3,868	......	......	......	......
Chittagong Government golahs	1,06,325	1,06,479	1,08,067	1,51,295	1,28,573
Total ...	23,72,379	21,30,555	13,03,988	18,27,015	18,91,822

9. Table V exhibits the despatches of salt from Calcutta by water and the three railways, *viâ* the several salt pass stations into the interior of the country, both east and west of the river Hooghly, during the quarter under review, and the corresponding quarters of the two preceding years.

V.

PERIOD.	*Viâ* Ballikhal.	*Viâ* Sankrail.	*Viâ* Gewa-khalee.	*Viâ* Kidder-pore.	*Viâ* Bullia-ghatta.	By the East Indian Railway.	By the Eastern Bengal Railway.	By the Calcutta and S. E. Railway.
	Mds.	Mds.	Mds.	Mds	Mds.	Mds.	Mds.	Mds.
4th quarter of 1870-71 ...	3,94,029	1,48,157	1,19,572	68,823	8,66,889	2,88,966	5,747	14
Ditto 1871-72 ...	3,85,354	1,36,197	1,17,182	64,917	8,10,274	3,19,742	2,975	26
Ditto 1872-73 ...	3,39,850	1,31,754	1,12,052	70,954	8,57,644	3,84,312	2,521	3,529

The quantity of salt despatched by the East Indian Railway to stations beyond Buxar in the quarter under review amounted to 8,111 maunds, as noted on the margin, against 12,367 maunds in the previous quarter, and 6,028 maunds in the corresponding quarter of the previous year.

	Mds.
January	243
February	3,127
March	4,741
Total ...	8,111

10. The shipments of Liverpool salt for the port of Calcutta, according to published market reports, were as follows:—

	Tons.
January	23,498
February	6,733
March	9,668
Total ...	39,899

No shipments were made, during the quarter under report, for the port of Chittagong.

11. The market prices, per 100 maunds of Liverpool, and other descriptions of salt at the close of each fortnight during the quarter, as compared with those obtaining during the same period last year, are shown in the following table:—

VI.

DESCRIPTION OF SALT.	Prices on 15th January.		Prices on 31st January.		Prices on 14th February.		Prices on 28th February.		Prices on 15th March.		Prices on 31st March.	
	1872.	1873.	1872.	1873.	1872.	1873.	1872.	1873.	1872.	1873.	1872.	1873.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Liverpool Pungah ...	43	54	39	54	38	61	45	74	50	74	48	67
French Kurkutch ...	55	60	56	59	56	58	56	56	56	54	56	56
Jeddah ditto ...	69	75	72	75	72	76	72	79	72	75	77	75
Ceylon ditto ...	54	63	65	63	65	...	65	...	65	...	65	...
Scinde ditto ...	38	...	38	...	38	...	38	...	38	...	38	...
Bombay ditto ...	60	56	54	53	54	53	51	53	49	43	54	41
Madras ditto ...	56	60	56	59	56	60	57	60	57	60	57	62

12. In Table VII are exhibited the total quantities of salt that were available for the private export trade at the several depôts in the Madras Presidency on the 1st day of each of the three months constituting the quarter under report and the corresponding quarters of 1870-71 and 1871-72 :—

VII.

Months.	1870-71. Mds.	1871-72. Mds.	1872-73. Mds.
January	6,03,962	1,59,056	5,66,340
February ...	6,03,962	5,77,132	5,66,340
March	6,03,962	6,01,132	5,19,957

13. Table VIII shows the quantities of sea-imported salt admitted into bond and cleared from bond and shipboard at Chittagong during the quarter under review and the corresponding quarter of 1871-72, respectively :—

VIII.

DESCRIPTION OF SALT.	ADMITTED INTO BOND.		CLEARED.	
	4th quarter of 1871-72.	4th quarter of 1872-73.	4th quarter of 1871-72.	4th quarter of 1872-73.
	Mds.	Mds.	Mds.	Mds.
Liverpool Pungah	41,037	37,100	68,506	73,100
Madras Kurkutch	2,977	......	296	......
Bremen Pungah	......	......	116	......
Total ...	44,014	37,100	68,918	73,100

No transactions in sea-imported salt have been reported for the quarter from any of the Orissa ports.

ERRATUM.

FOR the figures opposite the 4th Quarter of 1871-72 given in Table V of the Board's Report on the state of the Salt Market published at page 3 of the Supplement to the *Calcutta Gazette* of the 3rd July 1872, as regards the quantities of salt despatched from Calcutta into the interior of the country *viâ* Ballikhal, Sankrail, and the East Indian Railway, respectively, the following figures should be substituted :—3,85,354 maunds, 1,36,197 maunds, and 3,19,742 maunds.

H. J. S. COTTON,
Offg. Under-Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 31st May 1873.

	No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
	BENGAL.						
		Western Districts.	1873.				
BURDWAN DIVISION.	1	Burdwan ...	June 3rd*	0·79	Weather very hot ...	Summer crops withering for want of rain. Rain much needed. Grain market same as before.	Fever prevalent.
	2	Bancoorah ...	May 31st	0·32	Slight rain on the 26th, since then dry, but cooler than last week.	Rain wanted ...	Cases of cholera less numerous.
	3	Beerbhoom ...	„ 31st	0·50	Rain has been general in the district, but not heavy. Wind south-easterly with cloudy sky at times.	The rainfall though slight has been of much use; it has benefited sugarcane where planted out, and has enabled the cultivators to plough.	Small-pox and cholera have declined.
	4	Midnapore ...	„ 31st	0·66	No rain since Sunday, much needed now; weather close and hot. Barometer very low for some days.	The aus crop which is very small in this district is fair, but would be benefited by rain. The aman crop will be thrown back if the rain holds off many days.	
	5	Hooghly ...	„ 31st	0·54	Cooler; light storm on Tuesday; nights cloudy.	Aus crops being sown ploughing in places for the aman crop; more rain required.	
		Howrah ...	„ 31st	0·29	Slight rain in all parts of the district excepting only Jagutbullubpore and Bagnan.	The prospects of aus crops not very good. Rain much wanted.	
		Central Districts.					
PRESIDENCY DIVISION.	6	24-Pergunnahs ...	June 3rd	1·42	There has been more or less rain throughout the district. Rather cooler, but the maximum temperature was as high as 97 at Alipore.	The rain has advanced cultivation generally; ground is being fast prepared, and sowings of early rice going on.	General health good. A few cases of cholera reported at Busserhaut and Barrackpore sub-divisions.
	7	Nuddea ...	May 31st	0·55	Sky occasionally cloudy. Rain has fallen in many parts.	The condition and prospects of all crops have greatly improved this week through the rain which has fallen.	
	8	Jessore ...	„ 31st	0·95	Comparatively cool, sky generally overcast with light passing showers of rain. The barometer readings towards the end of the week have been low.	The prospects have much improved with the rainfall.	
RAJSHAHYE DIVISION.	9	Moorshedabad ...	„ 31st	0·35	Some rain has at last fallen, but it is not yet known to what extent in the different parts of the district. It was extremely hot for the greater part of the week, but the rainfall has somewhat cooled the temperature.	Complaints of the great want of rain are received from all parts, and the crops of dhan and sugarcane are suffering very badly.	There is scarcely any change in the number of cases of cholera and small-pox.
	10	Dinagepore ...	„ 31st	0·34	Very hot and sultry; a very small shower of rain on Friday and another on Saturday with every prospect of more rain coming—not before it was wanted.	The bhadoi rice, jute and sugarcane are all suffering for want of rain, and will be much damaged if more do not fall very soon.	A good deal of cholera still about.
	11	Maldah ...	„ 31st	Nil	Hot and dry with alternate clouds, threatening rain.	Boro dhan reaped. Rain is much wanted for the sowing of bhadoi crop and for indigo.	

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* Telegram of the 3rd June received on the same day.

No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
BENGAL.—(*Contd.*)						
	Central Districts.—(Contd.)	1873.				
RAJSHAHYE DIVN.—(*Contd.*)						
12	Rajshahye ...	May 31st	0·14	The wind blew strongly all the afternoons. All the days of the week were hot.	The young plants of paddy are withering away for want of rain. In some parts of the district cultivation is at a stand-still for want of rain.	
13	Rungpore ...	" 31st	Nil	Very hot, with a few clouds. Some rain has fallen on the 31st, and there is prospect of more.	The crops have been much parched up for want of rain.	
14	Bograh ..	" 31st	0·06	Very hot and dry ...	Sowings of early rice and of late rice (broadcast) completed; young plants suffering from drought. Jute also needs rain; sugarcane planting has commenced.	
15	Pubna ...	" 31st	1·87	The weather is very unsettled, there being heavy gales and good deal of lightning.	The jute crop in Serajgunge is very forward; the prospects there are good. In the south of the district the prospects are also favorable.	
COOCH BEHAR DIVISION.						
16	Darjeeling ...	" 31st	1·20	The weather was warmer at the beginning of the week; there has been a considerable amount of rain during the last three days, and it has been very heavy on the 31st.	In the hills all the crops are progressing favorably. Phaphar will soon be ready for reaping; all the other crops are quite young. In the Terai the bhadoi dhan is looking somewhat sickly owing to the excessive heat. Rain has been very much wanted throughout the district for tea.	
17	Julpigoree ...	" 31st	0·02	Unusually hot, and rainfall unusually deficient for the time of the year. The clouds which seemed to promise rain when last report went out rapidly dispersed; bright clear weather since.	Rain is greatly wanted for the bhadoi dhan.	Small-pox still prevalent in parts of the district, but generally the season is much more healthy than last year.
	Cooch Behar ...	" 31st	Nil	Very hot. Change of weather on the last day of the week.	Change of weather will be favorable as rain is wanted.	
	Eastern Districts.					
DACCA DIVISION.						
18	Dacca ...	June 3rd*	2·14	Weather very hot with occasional storms.	Prospects of crops good.	
19	Furreedpore ...	May 31st	1·35	Weather hot and close ...	Promising; the rain of the 30th will do much good, but more is wanted to give the paddy and jute a good start before the rivers rise and flood the country.	
20	Backergunge ...	" 31st	2·32	Lots of rain this last week.	Good.	
21	Mymensing ...	" 31st	0·84	Mostly dry and hot, but there has been sufficient rain for the crops.	Favorable.	
22	Sylhet ...	" 24th	0·25	Hot up to Thursday night; weather cooler since; heavy rains must have fallen in the neighbourhood.	More rain wanted. Timely showers will enable the ryots to more than make up what they have lost during the last few days of hot weather.	
23	Cachar ...	" 24th	0·20	Hot and sultry; a heavy storm with slight rain on the night of the 22nd.	Unseasonable weather; rain much wanted.	
CHITTAGONG DIVN.						
24	Chittagong ...	" 24th	Nil	Dry and hot, especially at night; there is generally a breeze during the day.	There is little to report at present, as the staple crop of the district—rice—is not yet in the ground. Rain will soon be wanted for the early sowings.	Cholera has appeared in the Huldee valley and sudder thannah. Fever still prevalent. In south of the district health good. Cattle disease has appeared in some places.
25	Noakhally ...	" 24th	Nil	Weather hot and close; strong south winds on the 22nd and 23rd; a few drops of rain on the morning of the 24th.	Reaping of chillies, sesamum and moong completed. In some parts sowing of aus dhan commenced.	

* Telegram of the 3rd June received on the same day.

No.	District.	Date of return from each district.	Rainfall at Sudder station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
BENGAL.—(*Contd.*)						
	Eastern Districts.—(Contd.)	1873.				
CHITTAGONG DIVN.—(*Contd.*)						
26	Tipperah ...	May 31st	1·23	Slight rain, which has somewhat reduced the temperature, but it is still very hot.	Sowings have been proceeding rapidly, and now nearly completed.	
27	Chittagong Hill Tracts	" 24th	Nil	The weather has been excessively hot throughout the whole week.	Owing to the want of rain the hillmen have stopped their cultivation, and the plants on the tops of hills have been scorched by the heat of the sun.	
	Hill Tipperah ...	" 24th	0·63	Excessively hot throughout the week. Pretty heavy shower of rain accompanied by a nor'-wester at 3 P. M. on the 24th.	More rain wanted to benefit the crops.	
BEHAR.						
PATNA DIVISION.						
28	Patna ...	June 3rd*	Nil	Weather very hot and oppressive.	Rain would be of much benefit. Mango crop being picked.	Sporadic cases of small-pox and cholera still reported from different parts of the district.
29	Gya ...	May 31st	Nil	Hot ...	Bha doi sowing commencing.	
30	Shahabad ...	" 31st	Nil	Heat excessive; prevailing wind east.	Sugarcane on the ground ...	Cholera and small-pox in places.
31	Tirhoot ...	" 31st	Nil	Hot and cloudy with wind generally from the east.	The cheena and early dhan have been scorched to some extent for want of rain, which is anxiously looked for and shortly expected; the indigo plant has also suffered, especially what was sown after the hail-storm on the 7th March last.	
32	Sarun ...	" 31st	A few drops of rain on Friday.	Weather very hot, with east wind.	The prospect of indigo continues favorable; moong and boro dhan are doing well; cheena is being harvested; rain much wanted.	
33	Chumparun ...	" 31st	0·3	Weather very hot, easterly wind prevailing; cloudy since yesterday.	Rain much wanted.	
BHAUGULPORE DIVN.						
34	Monghyr ...	" 31st	Nil	Fair with strong east winds clouding over.	Rain much wanted by all; indigo prospects bad.	
35	Bhaugulpore ...	June 3rd*	Nil	Wind chiefly east; heavy clouds about all the week.	Rain much wanted for the bhadoi crops and sugarcane.	Small-pox still prevalent.
36	Purneah ...	......	......	......	......	Return not received.
37	Sonthal Pergunnahs ...	May 31st	Nil	Cooler than last week; weather cloudy for the last two or three days.	Nothing doing.	
ORISSA.						
ORISSA DIVISION.						
38	Cuttack ...	June 3rd*	0·8	Weather much cooler	Rain fell at Kendraparah and Jajpur.	
39	Pooree ...	May 24th	Nil	South wind without rain	Ploughing still going on; dalua rice is being reaped, and other sorts of aus are being sown. The sugarcane crop is ready for cutting.	
40	Balasore ...	" 31st	1·83	Rain pretty general and in places heavy; weather cooler, but unsettled.	Ploughing and sowing are being effected under highly favorable conditions.	
CHOTA NAGPORE.						
	South-West Frontier Agency.					
41	Hazareebaugh ...	" 31st	Nil	Hot with alternate west and east hot winds.	Rain much wanted to enable cultivators to break up the ground; tanks very low.	Small-pox increasing; a few cases of cholera occurred in Burhi and Amjhur, 20 miles north of the Sudder Station.
42	Loharduggа ...	" 31st	0·50	Hot and cloudy with variable wind.	The low lands generally are being now sown; a little rain has fallen in most part of the district.	

* Telegram of the 3rd June received on the same day.

No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
CHOTA NAGPORE.—(*Contd.*)						
	South-West Frontier Agency.—(*Contd.*)	1873.				
43	Singbhoom ...	May 24th	Nil	Very hot and dry ...	Goondli, kheree, and gora dhan are in course of sowing.	
44	Maunbhoom ...	„ 31st	Nil	Cloudy and cool with showers of rain in places.	The early rice, til, cotton, and sugarcane have not yet suffered much.	Cholera still prevalent in many parts.
ASSAM AND ADJACENT HILLS.						
45	Goalparah ...	„ 24th	0·31	No rain in this week except on 22nd. The weather is very hot.	Prospect of asu and jute crops is good.	Small-pox is prevalent in the station, and cholera and fever in the interior.
46	Kamroop ...	June 2nd*	Nil	Weather hot and cloudless, with easterly breeze.	Want of rain is severely felt; prospects of aus crops, tea, cotton and sugarcane unfavorable.	Choleraic diarrhœa still prevails.
47	Durrung ...	May 24th	1·96	Bright or strong cold north-east wind prevailing; temperature in sheltered places very high; thunderstorms and squalls at night. Weather hot and close until evening of the 22nd, when a violent storm occurred.	Rain has done good; crop prospects generally fair.	
48	Nowgong ...	„ 24th	0·92	Weather has been very close and oppressive. A very severe gale and storm on the night of the 22nd May, which has cooled and cleared the atmosphere.	Spring crops promise well. Tea operations not so favorable.	
49	Seebsaugor ...	„ 24th	0·91	Fair and warm; one or two showers of rain have fallen during the week.	Aus crop promising well, tea rather backward.	
50	Luckimpore ...	„ 24th	0·59	With the exception of two days the weather was unusually cool for the season; rain fell on three days. At North Luckimpore Sub-division cloudy and drizzling rain on the 13th and 14th, the rest dry and hot.	Prospects of the crops good ...	Several cases of cholera occurred during the week in the neighbourhood of the station.
51	Naga Hills ...	„ 17th	0·03	Scarcely any rain has fallen either in the station or district; the weather has been hot, muggy, and very unhealthy.	Good everywhere.	
52	Khasi & Jynteah Hills	„ 24th	0·55	The weather up to 22nd had been very dry; and in parts of the hills rain had not fallen for thirteen days.	Generally the crops are progressing favorably, but in places suffering from drought. The potatoes are looking poor.	There has been more cholera at Cherrapoonjee, as also at the foot of the hills towards Jynteapore. Again the the cattle disease has made its appearance at Shillong.
53	Garo Hills ...	„ 24th	Nil	The weather has been extremely warm and disagreeable. Air hazy; strong winds from south-east; wind very hot. In the latter part of the week there has been less wind, and the heat in consequence greater; storms have been impending on the 23rd and 24th, but have passed away without any rain. Rain fell towards the hills to-day.	The crops have suffered from want of rain and the continued hot weather. The general showers of the early part of the month pushed on the crops very fast, and the prolonged dry weather has much checked their development. Rain is much wanted, and unless it comes soon, the dhan and cotton crops will suffer seriously.	

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* Telegram of the 2nd June received on the 3rd.

Published for general information.

CALCUTTA,
STATISTICAL DEPT.,
The 3rd June 1873.

H. J. S. COTTON,
Offg. Asst. Secy. to the Govt. of Bengal.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

Division.	District.	Station.	Rain from 11th to 17th May 1873.	Rain from 18th to 24th May 1873.	Rain from 1st January 1873.		Remarks.
					Inches.	Up to date.	
BENGAL.			Inches.	Inches.	Inches.	1873.	
	WESTERN DISTRICTS.						
BURDWAN.	Burdwan	Burdwan	Nil	Nil	8·88	24th May.	
		Cutwa	ditto	ditto	6·30	ditto.	
		Culna	ditto	ditto	6·52	ditto.	
		Bood-Bood	ditto	ditto	6·77	ditto.	
		Raneegunge	ditto	ditto	4·44	ditto.	
		Jehanabad	ditto	ditto	5·29	ditto.	
	Bancoorah	Bancoorah	ditto	ditto	8·88	ditto.	
	Beerbhoom	Sooree	0·04	ditto	1·96	ditto.	
	Midnapore	Midnapore	0·89	0·89	11·40	ditto.	
		Tumlook	0·15	0·31	6·63	ditto.	
		Gurbetta	0·45	Nil	6·54	ditto.	
		Contai ... Dy. Collr.'s Office	0·14	ditto	3·77	ditto.	
		Contai ... Exe. Engr.'s Office	0·25	ditto	5·40	ditto.	
	Hooghly	Hooghly	0·20	ditto	7·35	ditto.	
		Serampore	Nil	ditto	6·88	ditto.	
	Howrah	Howrah	0·01	ditto	6·16	ditto.	
	CENTRAL DISTRICTS.						
PRESIDENCY.	24-Pergunnahs	Saugor Island	0·10	ditto	5·43	ditto.	
		Calcutta	Nil	ditto	5·84	ditto.	
		Alipore... Dispensary	ditto	ditto	5·43	ditto.	
		Alipore... Jail	ditto	ditto	5·14	ditto.	
		Busseerhaut	ditto	ditto	3·36	ditto.	
		Baraset	ditto	ditto	4·47	ditto.	
		Diamond Harbour	ditto	ditto	6·55	ditto.	
		Barripore	ditto	ditto	7·00	ditto.	
		Satkherah	ditto	ditto	5·92	ditto.	
		Barrackpore	ditto	ditto	6·72	ditto.	
		Dum-Dum	ditto	ditto	6·58	ditto.	
	Nuddea	Kishnaghur	ditto	0·78	7·15	ditto.	
		Bongong	0·50	Nil	3·95	ditto.	
		Meherpore	Nil	1·75	6·25	ditto.	
		Choondangah	ditto	0·34	4·40	ditto.	
		Kooshtea	ditto	0·50	6·75	ditto.	
		Ranaghat	ditto	0·53	4·64	ditto.	
	Jessore	Jessore	0·12	0·71	6·17	ditto.	
		Nurail	Nil	0·51	11·15	ditto.	
		Khoolneah	0·30	0·80	10·12	ditto.	
		Jenidah	Nil	Not rec.	6·74	17th May.	
		Bagirhaut	0·36	0·13	7·55	24th May.	
		Magoorah	0·27	0·24	9·89	ditto.	
RAJSHAHYE.	Moorshedabad	Berhampore	Nil	Nil	2·74	ditto.	
		Ramporehaut	ditto	ditto	3·21	ditto.	
		City Moorshedabad	ditto	ditto	2·14	ditto.	
		Jungipore	ditto	ditto	2·85	ditto.	
		Azimgunge	ditto	ditto	3·03	ditto.	
		Lalgolla	ditto	ditto	3·07	ditto	From 1st February.
	Dinagepore	Dinagepore	ditto	ditto	2·12	ditto.	
	Maldah	Maldah	ditto	ditto	1·99	ditto.	
	Rajshahye	Beauleah	ditto	ditto	3·38	ditto.	
		Nattore	ditto	ditto	6·97	ditto.	
	Rungpore	Rungpore	ditto	ditto	9·73	ditto.	
		Bhowanigunge	ditto	ditto	6·72	ditto.	
		Titalya	ditto	0·20	9·27	ditto.	
	Bograh	Bograh	ditto	Nil	5·87	ditto.	
	Pubna	Pubna	ditto	0·12	9·33	ditto.	
		Serajgunge	ditto	Not rec.	3·99	17th May	Not received, 20th to 26th April.
COOCH BEHAR.	Darjeeling	Darjeeling Telegraph Office	Not rec.	ditto	9·51	30th April.	
		Darjeeling Hospital	0·18	0·20	10·78	24th May.	
	Julpigoree	Julpigoree	Nil	0·04	10·98	ditto.	
		Fallacotta	ditto	0·19	17·39	ditto.	
		Bodah	ditto	Nil	9·83	ditto.	
	Cooch Behar Tributary State	Cooch Behar	ditto	0·11	12·71	ditto.	
	Bhutan Dooars	Buxa	0·10	Nil	7·48	ditto.	
	EASTERN DISTRICTS.						
DACCA.	Dacca	Dacca ... Telegraph Office	1·61	0·10	14·76	ditto.	
		Dacca ... Hospital	1·05	Nil	10·35	ditto.	
		Moonshegunge	1·82	ditto	13·27	ditto.	
		Manickgunge	0·08	0·25	9·65	ditto.	
	Furreedpore	Furreedpore	0·14	0·31	13·78	ditto.	
		Goalundo	0·15	0·77	6·14	ditto.	
	Backergunge	Burrisaul	0·35	Nil	6·37	ditto.	
		Perozepore	0·03	0·07	7·08	ditto.	
		Madaripore	2·33	Nil	13·66	ditto.	
		Patooakhally	0·28	ditto	9·24	ditto.	
		Dowlat Khan	Nil	ditto	9·87	ditto.	
	Mymensing	Mymensing	ditto	0·74	7·14	ditto.	
		Jamalpore	ditto	0·30	11·28	ditto.	
		Atteah	ditto	Nil	8·21	ditto.	
		Kishoregunge	0·52	0·36	8·33	ditto.	
	Sylhet	Sylhet	0·81	0·32	24·53	ditto.	
	Cachar	Cachar	1·32	0·20	19·89	ditto.	
		Hylakandy	0·65	Not rec.	20·76	17th May.	
		Koyah	0·46	ditto	14·32	ditto.	
CHITTAGONG.	Chittagong	Chittagong Telegraph Office	Nil	Nil	9·00	24th May.	
		Chittagong Jail	ditto	ditto	10·91	ditto.	
		Cox's Bazar	ditto	ditto	13·21	ditto.	
	Noakhally	Noakhally	ditto	ditto	19·06	ditto.	
	Tipperah	Comillah	ditto	0·85	13·29	ditto.	
		Brahmanbariah	ditto	1·56	14·18	ditto.	
	Chittagong Hill Tracts	Rungamuttee Hill	ditto	Nil	7·56	ditto.	
	Hill Tipperah	Hill Tipperah	ditto	0·63	14·02	ditto.	

Division.	District.	Station.	Rain from 11th to 17th May 1873.	Rain from 18th to 24th May 1873.	Rain from 1st January 1873.		Remarks.
					Inches.	Up to date.	
	BEHAR.		Inches.	Inches.	Inches.	1873.	
Patna.	Patna	Patna	Nil	Not rec.	1·30	17th May	Not received, 13th to 19th April.
		Behar	ditto	Nil	1·17	24th May.	
		Barh	ditto	Not rec.	1·45	17th May	Not received, 13th to 19th April.
		Dinapore... Jail	ditto	Nil	1·16	24th May	" 4th to 10th May
		Cantonment	ditto	Not rec.	0·55	17th May	" 13th to 19th April.
	Gya	Gya	ditto	Nil	1·41	24th May.	
		Nowadah	ditto	ditto	1·34	ditto.	
		Aurungabad	ditto	ditto	2·26	ditto.	
		Jehanabad	ditto	ditto	1·36	ditto.	
	Shahabad	Arrah	ditto	ditto	2·14	ditto.	
		Sasseram	ditto	ditto	1·31	ditto.	
		Buxar	ditto	ditto	1·38	ditto.	
		Bhubooah	ditto	ditto	5·86	ditto.	
	Tirhoot	Mozufferpore	ditto	ditto	5·00	ditto.	
		Durbhangah	ditto	ditto	2·51	ditto.	
		Hajipore	ditto	ditto	1·93	ditto.	
		Mudhubani	ditto	ditto	4·11	ditto.	
		Seetamaree	ditto	ditto	3·15	ditto.	
		Tajpore	ditto	ditto	3·22	ditto.	
	Sarun	Chuprah	ditto	ditto	2·99	ditto.	
		Sewan	ditto	ditto	1·91	ditto.	
	Chumparun	Moteehari	ditto	ditto	5·30	ditto.	
		Bettiah	Not rec.	Not rec.	5·25	3rd May.	
Bhaugulpore.	Monghyr	Monghyr	Nil	Nil	3·27	24th May.	
		Begooserai	ditto	ditto	2·13	ditto.	
		Jamooie	ditto	ditto	1·93	ditto.	
	Bhaugulpore	Bhaugulpore	ditto	ditto	1·82	ditto.	
		Soopool	ditto	ditto	2·81	ditto.	
		Mudheypoorah	ditto	ditto	2·25	ditto.	
		Banka	ditto	ditto	2·23	ditto.	
		Sanborsa	ditto	ditto	2·56	ditto.	
	Purneah	Purneah	ditto	ditto	5·19	ditto.	
		Kishengunge	ditto	ditto	3·81	ditto.	
		Arrareah	ditto	ditto	4·62		
	Sonthal Pergunnahs	Deoghur	ditto	ditto	3·70		
		Jamtara	ditto	ditto	0·94	ditto.	
		Rajmehal	ditto	ditto	1·95	ditto.	
		Pakour	ditto	ditto	0·40	ditto.	
		Nya-Doomka	ditto	ditto	4·08	ditto.	
		Godda	ditto	ditto	2·43	ditto.	
	ORISSA.						
Orissa.	Cuttack	Cuttack Telegraph Office	ditto	ditto	4·20	ditto.	
		Cuttack Hospital	ditto	ditto	4·69	ditto.	
		Jajipore	1·40	0·10	5·85	ditto.	
		Kendrapara	Nil	Nil	5·20	ditto.	
		Jugutsingpore	0·32	ditto	4·54	ditto	
		False Point	Nil	ditto	2·25	ditto.	
	Pooree	Pooree	ditto	ditto	2·01	ditto.	
		Khurdah	0·16	ditto	1·37	ditto.	
	Balasore	Balasore	Nil	ditto	5·44	ditto.	
		Bhuddruck	0·93	ditto	3·17	ditto.	
		Jellasore	Nil	ditto	2·00	ditto	From 1st April.
		Sorah	ditto	ditto	0·15	ditto	ditto.
		Chandbally	ditto	ditto	1·37	ditto	ditto.
	Cuttack Tributary Mehals	Sâmbalpore	Not rec.	Not rec.	1·33	26th April.	
	CHOTA NAGPORE.						
	SOUTH-WESTERN FRONTIER AGENCY.						
	Hazareebaugh	Hazareebaugh Jail	Nil	Nil	1·26	24th May.	
		Hazareebaugh Dispensary	ditto	ditto	1·54	ditto.	
		Pachumba	0·25	ditto	2·77	ditto.	
	Loharduggah	Ranchee	0·52	ditto	2·84	ditto.	
		Palamow	0·38	ditto	1·72	ditto.	
	Singbhoom	Chyebassa	Nil	0·60	6·81	ditto.	
	Maunbhoom	Purulia	0·35	Nil	5·31	ditto	
		Gobindpore	Nil	ditto	3·80	ditto	
	ASSAM & ADJACENT HILLS.						
	Goalparah	Goalparah	0·24	0.31	20·56	ditto.	
		Dhoobree	Nil	0·15	15·70	ditto.	
	Kamroop	Gowhatty	0·59	1·20	17·41	ditto.	
		Burpettah	1·89	0·20	19·69	ditto.	
	Durrung	Tezpore	0·71	Not rec.	12·97	17th May	
		Mungledye	1·26	ditto	18·44	ditto.	
	Nowgong	Nowgong	0·77	1·08	11·36	24th May.	
	Seebsaugor	Seebsaugor	4·18	Not rec.	26·89	17th May.	
		Golaghat	0·21	ditto	16·94	ditto.	
		Jorehaut	1·43	ditto	16·65	ditto.	
	Luckimpore	Debrooghur	2·16	ditto	23·42	ditto.	
		North Luckimpore	1·60	ditto	13·47	ditto	Not received, 27th April to 10th May.
		Suddya	3·14	ditto	22·50	ditto.	
	Naga Hills	Samoogoodting	Not rec.	ditto	2·23	8th Mar.	
	Khasi and Jynteah Hills.	Shillong	Nil	ditto	10·92	17th May.	
		Jaowai	ditto	ditto	13·41	ditto.	
		Cherrapoonjee	5·51	ditto	44·64	ditto.	
	Garo Hills	Tura	Nil	Nil	17·96	24th May.	
		Benares	ditto	Not rec.	0·63	17th May.	
		Akyab	ditto	Nil	4·10	24th May.	

CALCUTTA,
The 31st May 1873.

H. F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

Meteorological Telegraphic Report for the period 25th to 31st May 1873.

STATIONS.	Date.	Hour.	Barometer reduced to 32°.	Barometer reduced to sea-level.	THERMOMETER.		Humidity Sat. =100.	WIND.		Rain.	Clouds.	Weather initials.
					Dry.	Wet.		Direction.	* Velocity.			
CALCUTTA.	May 25th	10	29·703	29·721	91·3	82·7	68	S	...	...	CS	
		16	29·586	29·604	95·5	83·0	57	S S W	...	...	K	
	26th	10	29·722	29·740	91·5	81·6	63	S S W	...	...	K	
		16	29·631	29·649	96·0	80·3	47	S S W	...	...	K, CS	
	27th	10	29·725	29·743	91·5	82·2	65	S W	...	...	K	
		16	29·632	29·650	84·8	81·0	83	S S E	...	0·82	S	
	28th	10	29·658	29·676	87·8	80·2	70	S	...	...	K	
		16	29·542	29·560	83·0	80·5	89	S E	...	...	......	o, d
	29th	10	29·588	29·606	87·0	80·6	74	E by N	...	0·06	K	
		16	29·436	29·454	90·5	81·0	64	E N E	...	...	K	
	30th	10	29·516	29·534	87·0	80·5	74	E by N	...	...	K C	
		16	29·407	29·425	89·5	81·0	67	N E	...	...	K C	
	31st	10	29·491	29·509	89·4	81·0	67	N E	...	0·03	K	
		16	29·373	29·391	93·7	81·9	57	E	...	...	K	
SAUGOR ISLAND.	May 25th	10	29·718	29·724	89	82	73	S S W	14·4	0·30	K	v, scuds
		16	29·610	29·616	89	81	69	S	17·6	...	KS	b, scuds.
	26th	10	29·733	29·739	91	81	63	S S W	16·6	0·20	K	b, v, scuds
		16	29·651	29·657	90	81	66	S S E	15·5	...	KS	scuds.
	27th	10	29·743	29·749	88	81	72	S S E	11·3	...	N	b, u
		16	29·637	29·643	87	80	72	S S E	10·2	...	N	b, u
	28th	10	29·669	29·675	84	78	75	S	8·5	...	N	o, u
		16	29·529	29·535	90	81	66	S E	9·9	...	N	b, u, scuds.
	29th	10	29·561	29·567	88	79	65	N	4·5	...	N	b, u
		16	29·456	29·462	85	80	79	E	7·6	0·90	N	b, v
	30th	10	29·499	29·505	88	81	72	N N W	7·3	...	N	b
		16	29·381	29·387	87	79	68	E	12·6	...	N	b, u
	31st	10	29·502	29·508	89	80	66	N N W	12·1	...	N	b, u, scuds
		16	29·367	29·373	96	80	47	N	11·7	...	N	b, u
CHITTAGONG.	May 25th	10	29·712	29·803	90	81	66	S	6·2	...	K	b
		16	29·607	29 698	89	80	66	W S W	12·7	...	K, KS	u
	26th	10	29·735	29·827	84	79	79	S	6·2	0·40	CK, K	t, v
		16	29·613	29·704	90	80	63	W	6·5	...	CK, C	b
	27th	10	29·725	29·816	89	77	56	E	3·7	...	CK, K	b
		16	29·600	29·691	90	80	63	W S W	11·3	...	......	b
	28th	10	29·645	29·736	88	78	62	E	4·7	...	CK, C	b
		16	29·504	29·595	89	80	66	S W	11·2	...	CK, C	b
	29th	10	29·555	29·647	87	78	65	S S E	5·1	...	K, KS	t, g
		16	29·436	29·528	87	80	72	S	9·3	...	K, KS, C	u
	30th	10	29·467	29·560	82	74	66	E	6·8	0·80	N	d, u, g
		16	29·356	29·448	86	78	68	E N E	6·8	...	K, KS	u, g
	31st	10	29·422	29·514	84	77	71	N N E	5·4	...	K, KS	u
		16	29·314	29·407	80	77	86	N N E	6·7	0·10	N	d, o, g
MADRAS.	May 24th	10	29·745	29·775	92	78	51	S E by S	6	...	......	c
		16	29·650	29·680	90	80	63	S S E	13	...	......	b
	25th	10	29 697	29.727	91	81	63	E by S	10	...	......	o
		16	29·632	29.662	86	79	72	E S E	10	...	......	cloudy.
	26th	10	29·707	29·737	91	79	56	S E by S	13	...	......	cloudy.
		16	29·636	29·666	87	79	68	S S E	15	...	......	cloudy.
	27th	10	29·748	29·778	88	76	55	S by W	15	0·02	......	c
		16	29·623	29 653	88	80	69	S E by S	18	...	......	c
	28th	10	29·697	29·727	90	78	56	S S W	14	...	......	c
		16	29·555	29 585	89	78	59	S S W	18	...	......	c
	29th	10	29·640	29·670	94	75	38	S W	16	...	......	b
		16	29·512	29·542	92	80	57	S S W	15	...	......	b
	30th	10	29 602	29·632	94	75	38	S W by W	13	...	......	b
		16	29·499	29·529	89	78	59	S S E	17	...	......	c
CUTTACK.	May 25th	10	29·578	29·659	95	80	49	W S W	9·4	...	C	b
		16	29·451	29·532	96	80	47	S	9·2	...	CK	b
	26th	10	29·619	29·701	83	77	75	S W	6·2	0·10	KS, N, C,	
		16	29·542	29·624	88	78	62	S W	4·2	...	KS, N, C	
	27th	10	29·618	29·699	92	81	60	N N E	3·6	...	C, K	b
		16	29·599	29.682	77	74	86	N E	12·0	...	KS, N	
	28th	10	29 566	29·648	86	79	72	S S W	0·8	...	K, C	
		16	29·394	29·475	96	79	44	E	2·8	...	CK, C	
	29th	10	29 529	26·610	90	80	63	N N E	1·6	...	CK, C	
		16	29·395	29·478	80	77	86	S W	4·3	0·40	CS, N, C	
	30th	10	29·405	29·487	89	80	66	N W	0·4	...	C	b
		16	29·379	29·460	98	80	43	N N W	1·7	...	CK	b
	31st	10	29·450	29·532	83	78	78	W	3·8	...	K, N	u
		16	29·311	29·392	93	82	60	S W	1·8	...	CK, N, C	
AKYAB.	May 25th	10	29·760	29·781	90	81	66	S S E	1·6	...	......	b
		16	29·637	29·658	91	80	60	W S W	7·0	...	......	b
	26th	10	29·775	29·796	92	82	63	S W	2·2	...	......	b
		16	29·644	29·665	90	78	56	W N W	7·0	...	......	b
	27th	10	29·780	29·801	91	81	63	S S E	1·8	...	......	b
		16	29·646	29·667	91	82	66	S W	5·0	...	......	b
	28th	10	29·697	29·718	88	82	76	E S E	1·2	0·20	......	b, f, l, r
		16	29·572	29·593	87	81	76	E	4·1	...	......	b
	29th	10	29·617	29·638	86	81	79	S S E	1·1	0·50	......	b, g
		16	29·501	29·522	85	80	79	S S E	6·0	...	C	
	30th	10	29·524	29·546	79	78	75	N N E	4·1	3·50	......	b
		16	29·449	29·471	81	79	91	S E	1·3	1·30	......	o, g
	31st	10	29·497	29 519	80	78	91	S	6·0	4·10	......	o, r
		16	29·414	29·436	81	79	91	S	1·1	1·00	......	p

* Velocity of wind in miles per hour.

CALCUTTA,
The 31*st May* 1873.

H. F. BLANFORD,
Meteorological Reporter to the Government of Bengal.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 22nd to 31st May 1873.

Month	Date.	Mean reduced barometer.	Thermometer.			Mean dry bulb.	Mean wet bulb.	Computed mean dew-point.	Mean degree of humidity.	Wind.			Rain.	Moon's phases.	General Remarks.
			Highest reading.	Lowest reading.	Max. solar radiation.					Prevailing direction.	Max. pressure.	Daily velocity.			
		Inches.	°	°	°	°	°	°			lbs.	Miles	In.		
May ...	22nd	29·592	104·0	83·2	150·2	91·4	83·6	78·9	0·68	S W & S	...	207·0	...	...	Chiefly clear.
	23rd	·574	99·0	82·0	142·7	89·8	82·2	77·6	·68	S S W	2·0	306·0	...	...	Chiefly clear. Brisk wind from 12½ A.M. to 5½ P.M; 11 to 11½ P.M. Lightning from 8¼ to 10 P.M.
	24th	·646	97·0	76·5	143·0	87·3	78·9	73·9	·66	S S W & S by E	11·0	411·3	...	...	Overcast and cumuli. Strong wind from 11½ to 12 P.M. Lightning from 8 to 11 P.M. Drizzled at 8½ P.M.
	25th	·676	98·8	77·0	145·0	86·6	78·2	73·2	·65	variable	4·0	239·2	...	...	Cumuli and stratoni. Brisk wind from midnight to 0½ A.M. Lightning at midnight and 1 A.M., and from 8 to 11 P.M.
	26th	·666	96·5	79·0	144·7	87·5	78·9	73·7	·65	S S W	1·0	280·4	...	...	Overcast, cumuli and clear. Thunder at 4 P.M. Lightning from midnight to 2 A.M. Drizzled at 12¾ A.M. and 4½ P.M.
	27th	·677	91·5	79·4	106·0	83·7	80·0	77·4	·82	S by W & S	5·0	182·4	0·82	...	Clear and overcast. High wind from 11 to 11½ A.M. Thunder from 10½ A.M. to 1 P.M. Rain at 8, and from 11 to 12½ A.M.
	28th	·608	88·5	78·9	136·5	82·4	78·8	76·3	·82	S & S by W	1·4	124·0	0·06	...	Clouds of different kinds. Thunder at 12 A.M., and 3½ P.M. Lightning between 7 and 8 P.M. Slight rain at 12 A.M., and 3¾ P.M.
	29th	·524	91·5	79·5	140·0	84·4	79·5	76·1	·77	S by W & E N E	0·2	133·8	...	...	Stratoni and cumuli.
	30th	·467	91·3	80·0	140·5	84·3	79·7	76·5	·78	E N E & N E	0·4	154·0	0·03		Overcast and cirri.
	31st	·442	93·7	81·3	141·7	86·0	80·3	76·3	·74	N E & E by N	1·2	218·2	0·05	...	Stratoni and cumuli. Thunder and slight rain at 5 P.M.

The mean barometer, as likewise the dry and wet bulb thermometer, means are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants. The figures in Column 10 represent the humidity of the air, the complete saturation of which being taken at unity. The receiver of the lower rain gauge is 1½ feet, and that of the anemometer 70 feet 10 inches above the level of the ground. The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

		°
The extreme variation of temperature during the past ten days	...	27·5
The max. temperature during the past ten days	...	104·0
The max. temperature during the corresponding period of the past year	...	101·3
The mean humidity during the past ten days	...	0·73
The mean humidity during the corresponding period of the past year	...	0·71
		Inches.
The total fall of rain from 22nd to 31st ... by lower rain gauge	...	0·96
The total fall of rain from 22nd to 31st ... by anemometer gauge	...	0·94
Ditto ditto ditto, average of nineteen previous years	...	2·29
Ditto ditto between the 1st January and the 31st May	...	6·80
Ditto ditto ditto, average of nineteen previous years	...	11·00

GOPEENAUTH SEN,
In charge of the Observatory.

The 3rd June 1873.

Abstract of the Results of the Hourly Meteorological Observations taken at the Surveyor-General's Office, Calcutta, in the month of April 1873.

Latitude 22° 33′ 1″ North. Longitude 88° 20′ 34″ East. Height of the cistern of the standard barometer above the sea-level, 18·11 feet.

MONTHLY RESULTS.

	Inches.
Mean height of the barometer for the month	29·733
Max. height of the barometer occurred at 8 A.M. on the 19th	29·974
Min. height of the barometer occurred at 5 and 6 P.M. on the 12th	29·494
Extreme range of the barometer during the month	0·480
Mean of the daily max. pressures	29·809
Ditto ditto min. ditto	29·658
Mean daily range of the barometer during the month	0·151

	⊖
Mean dry bulb thermometer for the month	84·2
Max. temperature occurred at 4 P.M. on the 12th	103·5
Min. temperature occurred at 5 and 6 A.M. on the 21st	71·0
Extreme range of the temperature during the month	32·5
Mean of the daily max. temperature	93·8
Ditto ditto min. ditto	77·3
Mean daily range of the temperature during the month	16·5

Mean wet bulb thermometer for the month	78·1
Mean dry bulb thermometer above mean wet bulb thermometer	6·1
Computed mean dew-point for the month	73·8
Mean dry bulb thermometer above computed mean dew-point	10·4

	Inches.
Mean elastic force of vapour for the month	0·822

	Troy grain.
Mean weight of vapour for the month	8·80
Additional weight of vapour required for complete saturation	3·44
Mean degree of humidity for the month, complete saturation being unity ...	0·72

	⊖
Mean max. solar radiation thermometer for the month	138·3

	Inches.
Rained 8 days,—max. fall of rain during 24 hours	1·02
Total amount of rain during the month	1·84
Total amount of rain indicated by the gauge* attached to the anemometer during the month	1·58
Prevailing direction of the wind	S S W & S.

* Height, 70 feet 10 inches above ground.

Gopeenauth Sen,
In charge of the Observatory.

The 29th May 1873.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

Cossye Division.

Statement showing the amount of Traffic and Tolls on the Midnapore Section of the High Level Canal for the Month of April 1873.

Length of Canal open—24 Miles.

LOCAL TRAFFIC.								ABSTRACT.							
Number of boats.	Nature of cargo.	Approximate		Tonnage, exclusive of empty boats.		Ton mileage.	Tollage.	Number of boats.	Nature of traffic.	Weight of cargo.	Value of traffic.	Tonnage, exclusive of empty boats.	Ton mileage.	Tollage.	Remarks.
		Weight of cargo.	Value of cargo.	Mds.	Tons.										
			Rs.				Rs. A. P.				Rs.			Rs. A. P.	
61	Coal ...	24,665	8,876	44,125	...	...	324 1 0	2,257	Local ...	112,571	6,14,525	10,401	103,979	2,377 9 3	Within Rs. 17 as much as for September 1872, the highest known. The total receipts for April in previous year were Rs. 1,329-9-6. Probably half the coal of the present return should come under "materials for Irrigation works." The Toll Collector's registers have not distinguished the respective consignments because probably the Coal Companies made out their own chellans and sent in their bills to the respective parties giving receipts on delivery at Panchkoorah. In fact because they made their sales at Panchkoorah. The receipts in every article show a very large increase over same month of previous year, due no doubt in a large measure to the opening since, of Lock 6 at Panchkoorah, whereby access is given at once to the river and the ferry tolls saved.
34	Cotton ...	4,462	83,405	14,000	...	...	95 2 6	...	Irrigation works ...	...	...	...	...	......	
7	Firewood ...	970	425	2,250	...	...	11 9 0	...	......	...	...	...	...	......	
34	Grain ...	3,245	5,167	8,700	...	...	47 10 6	...	......	...	...	...	...	......	
15	Hides and horns ...	1,745	27,860	4,075	...	...	29 12 0	...	......	...	...	...	...	......	
20	Jaggery and sugar ...	2,390	8,525	6,850	...	...	27 8 6	...	......	...	...	...	...	......	
19	Metal ...	2,165	36,660	6,175	...	...	38 9 6	...	......	...	...	...	...	......	
164	Miscellaneous ...	11,626	64,447	42,400	...	...	298 5 0	...	......	...	...	...	...	......	
51	Oil and oilseeds ...	8,002	36,948	17,750	...	...	100 2 2	...	......	...	...	...	...	......	
75	Paddy and rice ...	12,639	13,391	25,325	...	...	97 2 6	...	......	...	...	...	...	......	
26	Piece-goods ...	341	34,390	3,700	...	...	16 12 0	...	......	...	...	...	...	......	
46	Thread ...	1,439	48,886	10,250	...	...	43 6 0	...	......	...	...	...	...	......	
257	Garden produce ...	5,890	11,605	25,875	...	...	101 15 6	...	......	...	...	...	...	......	
33	Pottery ...	1,231	9,003	6,950	...	...	34 10 0	...	......	...	...	...	...	......	
79	Salt ...	24,275	1,06,125	48,975	...	...	287 15 6	...	......	...	...	...	...	......	
23	Silk and indigo ...	2,504	94,785	7,800	...	...	43 14 0	...	......	...	...	...	...	......	
2	Straw ...	208	94	650	...	...	2 7 0	...	......	...	...	...	...	......	
36	Tobacco ...	3,143	19,408	9,350	...	...	55 6 0	...	......	...	...	...	...	......	
6	Tiles ...	905	492	3,875	...	...	28 11 6	...	......	...	...	...	...	......	
4	Sand ...	723	73	2,100	...	...	12 15 0	...	......	...	...	...	...	......	
1	Rope ...	3	30	75	...	...	1 2 0	...	......	...	...	...	...	......	
				Logs.				...	......	...	...	...	...	......	
8	Rafts of timber ...	...	3,930	104	...	...	38 4 0	...	......	...	...	...	...	......	
512	Empty boats ...	...	...	40,800	...	...	195 10 0	...	......	...	...	...	...	......	
				No.											
736	Passengers ...	...	...	7,056	...	...	83 5 3	...	......	...	...	...	...	......	
...	Ditto ...	...	...	55,725	...	...	348 6 6	...	......	...	...	...	...	......	
...	Miscellaneous revenue ...	...	...	...	...	...	12 14 0	...	......	...	...	...	...	......	
8	Police boats ...	...	...	...	...	...	......	...	......	...	...	...	...	......	
2,257		112,571	6,14,525	291,250	10,401	103,979	2,377 9 3	2,257		112,571	6,14,525	10,401	103,979	2,377 9 3	

N.B.—The tonnage shown above is that of the boats, and not of the cargo.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

Statement showing the amount of Traffic and Tolls on the Hidgellee Tidal Canal for the month of April 1873.

LENGTH OF CANAL OPEN—3 MILES.

LOCAL TRAFFIC.								ABSTRACT.								
Number of boats.	Nature of cargo.	APPROXIMATE		TONNAGE, EXCLUSIVE OF EMPTY BOATS.		Ton mileage.	Tollage.	Number of boats.	Nature of Traffic.	Weight of cargo.	Value of traffic.	Tonnage, exclusive of empty boats.	Ton mileage.	Tollage.	Corresponding month in previous year.	REMARKS.
		Weight of cargo.	Value of cargo.	Maunds.	Tons.											
							Rs. A. P.				Rs. A. P.			Rs. A. P.		
4	Tobacco ...	600	4,300	1,075	...	...	5 6 0	24	Local ...	6,273	9,113 0 0	374	1,122	54 7 3	2,872 6 0	The decrease is owing to the canal being closed for silt excavation. The tolls have been realized from the portion of Range No. I Canal lying between its junction with the Gaonkhally Extension Canal and the Roopnarain River. J. C. VERTANNES, C.E. 5-27-73.
7	Sand ...	4,050	243	5,875	...	...	29 10 0	...	......	...	......	...	...	......	......	
2	Corn ...	190	1,000	325	...	...	1 10 0	...	......	..	......	...	...	......	......	
2	Salt ...	225	900	475	...	...	2 6 0	...	......	...	......	...	...	......	......	
2	Firewood ...	1,100	220	1,600	...	...	8 0 0	...	......	...	......	...	...	......	......	
1	Water ...	...	...	450	...	...	2 4 0	...	......	...	......	...	...	......	......	
1	Cloth ...	8	900	75	...	...	0 6 0	...	......	...	......	...	...	......	......	
1	Miscellaneous ...	100	1,500	250	...	...	1 4 0	...	......	...	......	...	...	......	......	
1	Pottery, No. 5,000 ...	...	50	350	...	...	1 12 0	...	......	...	......	...	...	......	......	
1	Passengers, No. 3 ...	...	...	...	...	...	0 5 3	...	......	...	......	...	...	......	......	
2	Empty ...	...	...	...	...	...	1 8 0	...	......	...	......	...	...	......	......	
24		6,273	9,113	10,475	374	1,122	54 7 3	24	......	6,273	9,113 0 0	374	1,122	54 7 3	2,872 6 0	

N.B.—The tonnage shown above is that of the boats, and not of the cargo.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

ORISSA CIRCLE.

Statement showing the amount of Traffic and Tolls on the Taldundah Canal for the month of April 1873.

LENGTH OF CANAL OPEN—27¼ MILES.

LOCAL TRAFFIC.								STORES AND MATERIALS FOR IRRIGATION WORKS.								ABSTRACT.							REMARKS.*
Number of boats.	Nature of cargo.	APPROXIMATE		TONNAGE, EXCLUSIVE OF EMPTY BOATS.		Ton mileage.	Tollage.	Number of boats or rafts.	Nature of cargo.	APPROXIMATE		TONNAGE, EXCLUSIVE OF EMPTY BOATS.		Ton mileage.	Tollage.	Number of boats.	Nature of traffic.	Weight of cargo.	Value of traffic.	Tonnage, exclusive of empty boats.	Ton mileage.	Tollage.	
		Weight of cargo.	Value of cargo.	Maunds.	Tons.					Weight of cargo.	Value of cargo.	Maunds.	Tons.										
		Mds.	Rs.				Rs. A. P.				Rs.				Rs. A. P.				Rs.			Rs. A. P.	
23	Paddy ...	...	3,015	9,096	...	...	23 13 6	7	Laterite stone	...	78	5,037	...	...	12 9 7	...	...	...					
15	Straw ...	...	340	4,505	...	...	11 4 3	2	Soorky ...	...	109	1,990	...	...	4 15 7	...	...	...					
1	Lime ...	...	25	175	...	...	0 7 0	2	Lime ...	...	132	960	...	...	2 6 5	...	...	...					
2	Fuel ...	...	21	357	...	...	0 14 3	1	Crane boat ...	...	6,000	625	...	...	3 2 0	105	Local traffic	...	5,248	580	5,370	103 1 9*	
2	Pumpkins ...	...	180	615	...	...	1 8 8	11	Empty ...	...	...	...	...	...	7 7 1	23	Irrign. works	...	6,319	307	4,387	30 8 8†	
1	Onions ...	...	600	234	...	...	0 9 4	...															
2	Rice ...	...	180	378	...	...	1 5 1	...															
1	Jaggery ...	...	500	429	...	...	2 2 6	...															
1	Sand cut stone...	...	34	481	...	...	1 3 3	...															
...	Timber in No. 77	...	146	...	...	...	13 2 0	...															
...	Bamboos in No. 16,900 ...	...	207	...	...	...	18 13 4	...															
57	Empty ...	...	...	...	...	...	19 1 1	...															
...	Passengers, 3 ...	...	...	...	...	...	0 1 6	...															
...	Demurrage for 31 days ...	...	...	...	...	...	7 12 0	...															
...	Charge for a duplicate of toll ticket ...	...	...	...	...	...	1 0 0	...															
105		...	5,248	16,268	580	5,370	103 1 9	23		...	6,319	8,612	307	4,387	30 8 8	128		...	11,567	887	9,757	133 10 5	

* Previous year	... ...	68 7 6
† Ditto	... ...	4 1 6
	Total ...	72 9 0

There has been a considerable increase in traffic both local and for irrigation works as compared with the same month of last year.

N.B.—The tonnage shown above is that of the boats, and not of the cargo.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

ORISSA CIRCLE.

Statement showing the amount of Traffic and Tolls on the Kendraparah Canal for the month of April 1873.

DISTANCE FROM CUTTACK TO TERMINAL LOCK AT TIDE WATER—42 MILES.

LOCAL TRAFFIC.							TRAFFIC BETWEEN CUTTACK AND SEA BOARD.							STORES AND MATERIALS FOR IRRIGATION WORKS.							ABSTRACT.						
Number of boats.	Nature of cargo.	Approximate value of cargo.	Tonnage, exclusive of empty boats.		Ton mileage.	Tollage.	Number of boats	Nature of cargo.	Approximate value of cargo.	Tonnage, exclusive of empty boats.		Ton mileage.	Tollage.	Number of boats.	Nature of cargo.	Approximate value of cargo.	Tonnage, exclusive of empty boats.		Ton mileage.	Tollage.	Number of boats.	Nature of traffic.	Value of traffic.	Tonnage, exclusive of empty boats.	Ton mileage.	Tollage.	Corresponding month in previous year.
			Maunds.	Tons.						Maunds.	Tons.						Maunds.	Tons.									
		Rs				Rs. A. P.			Rs.				Rs. A. P.							Rs. A. P.			Rs.			Rs. A. P.	
40	Paddy ...	3,105	6,211	...	...	29 6 0	86	Paddy ...	955	19,102	...	...	233 0 0	11	Stones ...	102	6,504	...	...	32 0 0	220	Local traffic ...	66,935	764	18,948	181 10 8	...
30	Jaggery ...	56,780	11,356	...	...	59 12 0	4	Jaggery ...	5,650	1,130	...	...	16 8 0	2	Gyles ...	279	279	...	...	1 4 0	254	Through ditto .	3,72,524	1,564	65,688	817 7 1	...
1	Salt ...	665	131	...	...	1 4 0	2	Salt ...	1,240	248	...	...	3 6 0	1	Tools ...	8,760	438	...	...	2 2 0	17	Irrign. works ...	9,141	258	5,312	45 10 0	1,337 11 4
2	Grain ...	182	128	...	...	0 8 0	1	Chillies ...	792	66	...	...	0 12 0	3	Empty ...	......	...	...	...	10 4 0	...	......	...	...	...	...	...
1	Garlic ...	1,300	130	...	...	0 10 0	33	Spices ...	290,700	14,535	...	...	205 4 0	...	......	......	...	...	...	...	...	......	...	...	...	...	...
7	Coriander seed	2,644	661	...	...	5 12 0	7	Hides ...	40,240	4,024	...	...	59 4 0	...	......	......	...	...	...	...	...	......	...	...	...	...	...
5	Black grain ...	729	583	...	...	6 0 0	4	Horns ...	5,250	525	...	...	7 8 0	...	......	......	...	...	...	...	...	......	...	...	...	...	...
4	Oilcake ...	450	514	...	...	3 8 0	1	Planks ...	325	812	...	...	12 6 0	...	......	......	...	...	...	...	...	......	...	...	...	...	...
2	Straw ...	80	256	...	...	1 2 0	1	Boxes ...	648	648	...	...	9 6 0	...	......	......	...	...	...	...	...	......	...	...	...	...	...
4	Stones ...	...	...	...	...	2 0 0	2	Mamooties ...	23,740	1,187	...	...	17 4 0	...	......	......	...	...	...	...	...	......	...	...	...	...	...
1	Tile bricks ...	5	315	...	...	3 0 0	22	Passengers ...	...	...	...	...	61 0 9	...	......	......	...	...	...	...	...	......	...	...	...	...	...
110	Empty ...	...	...	...	...	50 10 0	2	Timbers ...	2,798	861	...	...	12 12 0	...	......	......	...	...	...	...	...	......	...	...	...	...	...
7	Rafts of bamboos in No. 5,010.	63	...	...	...	6 6 8	7	Bamboos ...	83	665	...	...	8 10 0	...	......	......	...	...	...	...	...	......	...	...	...	...	...
3	Do. timbers in No. 23.	46	...	...	...	2 4 0	66	Empty ...	...	...	...	...	150 3 4	...	......	......	...	...	...	...	...	......	...	...	...	...	...
1	Gravel ...	3	223	...	...	1 0 0	11	Rafts of bamboos in No. 5,675.	71	...	...	...	14 3 0	...	......	......	...	...	...	...	...	......	...	...	...	...	...
2	Boxes, &c. ...	883	883	...	...	8 8 0	5	Do. timbers in No. 16.	32	...	...	...	6 0 0	...	......	......	...	...	...	...	...	......	...	...	...	...	...
200		66,935	21,391	764	18,948	181 10 8	254		372,524	43,803	1,564	65,688	817 7 1	17		9,141	7,221	258	5,312	45 10 0	491		4,48,600	2,586	89,948	1,044 11 9	1,337 11 4

N.B.—The tonnage shown above is that of the boats, and not of the cargo.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

ORISSA CIRCLE.

Statement showing the amount of Traffic and Tolls on the Brahminee Division High Level Canal for the month of April 1873.

LENGTH OF CANAL OPEN—37 MILES.

LOCAL TRAFFIC.								STORES AND MATERIALS FOR IRRIGATION WORKS.								ABSTRACT.							Corresponding month in previous year.
Number of boats.	Nature of cargo.	Approximate weight of cargo.	Approximate value of cargo.	TONNAGE, EXCLUSIVE OF EMPTY BOATS.		Ton mileage.	Tollage.	Number of boats or rafts.	Nature of cargo.	Approximate weight of cargo.	Approximate value of cargo.	TONNAGE, EXCLUSIVE OF EMPTY BOATS.		Ton mileage.	Tollage.	Number of boats.	Nature of traffic.	Weight of cargo.	Value of traffic.	Tonnage, exclusive of empty boats.	Ton mileage.	Tollage.	
				Maunds.	Tons.							Maunds.	Tons.										
			Rs.				Rs. A. P.								Rs. A. P.				Rs.			Rs. A. P.	
1	Paddy ...	170	85	208	...	...	1 0 0	1	Iron, &c. ...	200	1,000	504	...	...	7 8 0	109	Local ...	5,080	11,697	253	2,855	69 8 4	39 9 2
1	Table ...	40	40	68	...	...	0 14 3	4	Firewood ...	1,500	150	2,989	...	...	19 2 0		Irrign. works.	1,800	1,380	210	5,193	72 13 6	54 6 4
20	Pumpkins ...	585	146	1,037	...	...	4 13 4	1	Iron rails, &c....	100	230	405	...	...	6 0 0	16	......	...	...	...	...	......	
1	Salt ...	200	1,000	273	...	...	3 12 0	2	Steamer ...	...	...	2,000	...	...	31 8 10	...	......	...	...	...	...	......	
13	Jaggery ...	1,830	9,150	2,556	...	...	16 2 0	7	Empty ...	...	...	...	...	...	8 6 2	...	......	...	...	...	...	......	
13	Straw ...	2,210	691	2,880	...	...	13 15 3	1	Passengers ...	...	...	...	...	...	0 4 6	...	......	...	...	...	...	......	
2	Oil, &c. ...	45	585	86	...	...	1 3 0	...	......	...	...	...	...	...	...	...	......	...	...	...	...	......	
53	Empty ...	...	...	...	...	...	20 13 4	...	......	...	...	...	...	...	...	...	......	...	...	...	...	......	
2	Bamboos ...	...	...	...	...	...	0 12 0	...	......	...	...	...	...	...	...	...	......	...	...	...	...	......	
3	Passengers ...	...	...	...	...	...	6 3 2	...	......	...	...	...	...	...	...	...	......	...	...	...	...	......	
109		5,080	11,697	7,108	253	2,855	69 8 4	16		1,800	1,380	5,898	210	5,193	72 13 6	125		6,880	13,077	463	8,048	142 5 10	93 15 6

N. B.—The tonnage shown above is that of the boats, and not of the cargo.

There is no check whatever upon the distance travelled by the boats; hence the average rate of toll per mile should not be taken as absolutely correct. It is an approximate probably higher than the true rate.

The 30*th May* 1873.

A. J. HUGHES, C.E.,
for Offg. Joint-Secretary to the Government of Bengal
in the P. W. Dept., Irrigation Branch.

Weekly Return of Traffic Receipts on Indian Railways.

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for Week ended 17th May 1873, on 28 miles open.

	Coaching Traffic.			Merchandise and Mineral Traffic.			Total receipts.
	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.		
		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	5,276	891 0 0	89 2 0	15,835 0	451 0 0	45 2 0	134 4 0
Or per mile of railway	188	32 0 0	3 4 0	566 0	16 0 0	1 12 0	4 16 0
For previous 19 weeks of half-year...	138,312	22,064 0 0	2,206 8 0	361,108 0	11,643 0 0	1,164 6 0	3,370 14 0
Total for 20 weeks ...	143,588	22,955 0 0	2,295 10 0	376,943 0	12,094 0 0	1,209 8 0	3,504 18 0
COMPARISON.							
Total for corresponding week of previous year	4,800½	878 13 0	87 17 8	16,515 34	541 14 0	54 3 9	142 1 5
Per mile of railway corresponding week of previous year	171	31 6 2	3 2 9	589 34	19 5 8	1 18 9	5 1 6
Total to corresponding date of previous year	148,340½	22,117 1 9	2,211 14 2	339,515 28	10,318 0 3	1,031 16 1	3,243 10 3

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for Week ended 17th May 1873, on 156½ miles open.

		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d
Total traffic for the week	49,730½	37,089 14 9	3,393 18 2	140,204 4	33,264 8 9	3,049 5 0	6,449 3 2
Or per mile of railway	318	236 15 11	21 14 6	896 0	212 8 10	19 9 8	41 4 2
For previous 19 weeks of half-year	620,908½	4,69,747 6 5	43,060 7 3	2,447,107 2	8,74,781 12 10	52,667 5 1	95,727 12 4
Total for 20 weeks	670,639	5,06,837 5 2	46,460 5 4	2,587,311 6	9,08,046 5 7	55,716 10 1	102,176 15 5
COMPARISON.							
Total for corresponding week of previous year...	31,299	18,723 10 0	1,716 6 8	115,191 4	27,126 1 7	2,486 11 2	4,202 17 10
Per mile of railway corresponding week of previous year	200	119 10 3	10 19 4	736 0	173 5 3	15 17 9	26 17 1
Total to corresponding date of previous year	642,742½	4,14,126 8 11	37,961 12 0	2,772,385 39	5,44,317 6 9	40,895 15 4	87,857 7 4

EAST INDIAN RAILWAY—MAIN LINE.

Approximate Return of Traffic for Week ended 24th May 1873, on 1,280 miles open.

		Rs. A. P.	£. s. d.	Mds. Srs.	Rs. A. P.	£. s. d.	£ s. d.
Total traffic for the week	108,500	1,33,289 9 4	12,218 4 3	806,522 0	3,94,160 2 9	36,131 7 0	48,349 11 3
Or per mile of Railway	......	104 2 1	9 10 11	......	307 15 0	28 4 7	37 15 6
For previous 20 weeks of half-year...	2,291,116	33,10,616 11 2	303,473 3 11	15,215,000 10	76,27,360 11 9	699,174 14 8	1,002,647 18 7
Total for 21 weeks ...	2,399,616	34,43,906 4 6	315,691 8 2	16,021,522 10	80,21,520 14 6	735,306 1 8	1,050,997 9 10
COMPARISON.							
Total for corresponding week of previous year	121,205	1,69,667 7 5	15,552 17 0	610,833 30	3,22,836 1 11	29,593 6 3	45,146 3 3
Per mile of railway corresponding week of previous year	......	132 8 10	12 3 0	......	252 3 6	23 2 5	35 5 5
Total to corresponding date of previous year	2,331,233	34,96,579 5 7	320,519 15 5	14,570,371 30	81,35,460 10 10	745,750 11 8	1,066,270 6 8

EAST INDIAN RAILWAY—JUBBULPORE LINE.

Approximate Return of Traffic for Week ended 24th May 1873, on 223½ miles open.

		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	4,868	10,829 2 1	992 13 5	87,991 20	22,407 11 0	2,062 5 9	3,054 19 2
Or per mile of railway	......	48 7 3	4 8 10	......	100 10 7	9 4 6	13 13 4
For previous 20 weeks of half-year...	97,335	3,39,624 3 0	31,132 4 4	1,463,346 0	4,25,485 3 0	39,002 16 2	70,135 0 6
Total for 21 weeks ...	102,203	3,50,453 5 1	32,124 17 9	1,551,337 20	4,47,982 14 0	41,065 1 11	73,189 19 8
COMPARISON.							
Total for corresponding week of previous year	6,126	16,001 4 7	1,466 15 8	72,638 10	20,400 15 1	1,870 1 9	3,336 17 5
Per mile of railway corresponding week of previous year	......	71 9 6	6 11 3	......	91 4 6	8 7 4	14 18 7
Total to corresponding date of previous year	113,280	3,54,821 14 0	32,525 6 9	1,513,678 30	4,33,200 15 8	39,710 1 10	72,235 8 7

NALHATTEE STATE RAILWAY.

Approximate Return of Traffic for Week ended 24th May 1873, *on* 27½ *miles open.*

	COACHING TRAFFIC.			MERCHANDISE AND MINERAL TRAFFIC.			Total receipts.
	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.		
		Rs. A. P.	£ *s.* *d.*	Mds. Srs.	Rs. A. P.	£ *s.* *d.*	£ *s.* *d.*
Total traffic for the week	1,331½	987 0 0	98 14 0	5,841 0	372 0 0	37 4 0	135 18 0
Or per mile of railway	49	36 0 0	3 12 0	214 0	13 8 0	1 7 0	4 19 0
For previous 20 weeks of half-year	33,663	24,276 0 0	2,427 12 0	137,595 0	10,802 0 0	1,080 4 0	3,507 16 0
Total for 21 weeks ...	34,994½	25,263 0 0	2,526 6 0	143,436 0	11,174 0 0	1,117 8 0	3,643 14 0
COMPARISON.							
Total for corresponding week of previous year	......	......	......	......	......	......	......
Per mile of railway corresponding week of previous year	......	......	......	......	......	......	......
Total to corresponding date of previous year	......	......	......	......	......	......	......

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for Week ended 24th May 1873, *on* 28 *miles open.*

		Rs. A. P.	£ *s.* *d.*	Mds. Srs.	Rs. A. P.	£ *s.* *d.*	£ *s* *d.*
Total traffic for the week	5,019	899 0 0	89 18 0	27,039 0	862 0 0	86 4 0	176 2 0
Or per mile of railway	179	32 0 0	3 4 0	966 0	31 0 0	3 2 0	6 6 0
For previous 20 weeks of half-year	143,588	22,955 0 0	2,295 10 0	376,943 0	12,094 0 0	1,209 8 0	3,504 18 0
Total for 21 weeks	148,607	23,854 0 0	2,385 8 0	403,982 0	12,956 0 0	1,295 12 0	3,681 0 0
COMPARISON.							
Total for corresponding week of previous year	5,039½	864 3 0	86 8 5	16,712 24	569 14 6	56 19 10	143 8 3
Per mile of railway corresponding week of previous year	180	30 13 9	3 1 9	596 34	20 5 8	2 0 8	5 2 5
Total to corresponding date of previous year	153,380	22,981 4 9	2,298 2 7	356,228 12	10,887 14 9	1,088 15 11	3,386 18 6

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[REGISTERED No. 29.]

No. 24 of 1873

SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, JUNE 11, 1873.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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THE IMPROVEMENT OF STEAMER COMMUNICATION BETWEEN GOALUNDO AND ASSAM.

No. 3085, dated Calcutta, the 1st October 1872.

From—FRANKLIN PRESTAGE, ESQ., Agent, Eastern Bengal Railway Company,
To—The Offg. Secretary to the Government of Bengal.

THE means of communication with Assam are still so wretchedly indifferent, and promise to become worse, that I have for some time past been considering how they can be improved, and now have the honor to request you will lay before His Honor the Lieutenant-Governor the accompanying note detailing my proposals.

2. Although working such steamer services as I propose shows a handsome return on the outlay,—if I may do so, I would urge that if the services as a whole are worked so as to be self-supporting, that is to say, after covering working expenses, there is sufficient to set apart 10 per cent. on the outlay for depreciation and insurance, and 5 per cent. for interest on capital,—the Government might, I submit, be satisfied with this, and let any surplus be absorbed in establishing more frequent services.

3. Although the greater regularity and despatch of the proposed service would create all the traffic I estimate upon receiving, and I have no doubt the financial results I have shown would be realized, yet if they were not, I would beg to submit there are few places in India where the Government would be warranted in sinking such an amount of capital as that proposed to improve communication, to say nothing of the numerous advantages to the State of having such a means of transport always at its command on this side of India.

4. I would beg to point out that one of the main objects of the proposed service is to give greater facilities for the emigration of coolies, and in a more humane and less costly manner than at present.

5. As to the means by which such a service may be established, this Railway Company could, I think, organize and work it to the best advantage to all concerned; and although it has not at present special powers to run vessels on the Brahmapootra, with the approval of Government they might be obtained. But this need not, I submit, prevent the service being established if it is thought desirable, for the Government might, if disposed, with every advantage construct the steamers in the Government Dockyard and charter them to the Railway Company; and my Board would, I should think, assent to their being worked as part of this Company's system, and with all the advantages of our own flotilla, in return for the increased traffic they would develop with Assam.

6. In conclusion, I would solicit that if His Honor is disposed to entertain this proposal, that authority be given for me to place myself in communication with the marine authorities with a view to their preparing the necessary drafts and estimates of such a vessel as we may think best suited for working such a service, in anticipation of His Honor ultimately according sanction for the construction of such a vessel as may be proposed as a trial steamer.

7. I should state the vessels proposed are such as we think should also be used for running between Chittagong, Burrisaul and Goalundo, between which places there would be ample traffic for a bi-weekly service; and I think I may say until such a service is also established, the districts mentioned will not get the benefit they are entitled to from the extension of the railway to Goalundo, neither will the railway create the traffic with them that it would benefit all to create.

Note on the existing means of communication with Assam and the means by which it is proposed to improve it.

THE vessels by which the public have had to rely on communication with Assam during so much of the present year as has gone have been advertised to leave Calcutta and Kooshtea, and have taken their departure as below:—

CALCUTTA.		KOOSHTEA.	
Advertised date of departure.	Date of departure.	Advertised date of departure.	Date of departure.
January 7, 1872	January 16, 1872	*Not advertised.*	January 21, 1872.
" 14, "	" 24. "	January 31, 1872.	*Date not known.*
" 21, "	" 30, "	Feb. 6, "	February 9, 1872.
" 28, "	February 8, "	*Not advertised.*	" 18, "
Feb. 8, "		"	
" 11, "		"	March 2, "
" 18, "	" 20, "	"	" 16, "
March 3, "	March 4, "	March 29, 1872.	April 4, "
" 13, "	" 22, "	" 27, "	March 30, "
" 17, "	" 19, "	*Not advertised.*	April 16, "
April 3, "	April 3, "	April 22, 1872.	" 28, "
" 10, "	" 11, "	* May 5, "	*Date not known.*
" 23, "	" 25, "	" 22, "	May 26, 1872
May 10, "	May 14, "	" 26, "	June 1, "
" 12, "	" 18, "		
June 2, "		June 20, "	" 24, "
" 8, "	June 11. "	" 9, "	" 19, "
	" 4, "	" 27, "	July 2, "
" 16, "	" 17, "	July 8, "	August 1, "
" 25, "	" 28, "	" 24, "	
July 7, "	July 22, "	August 6, "	
" 25, "	" 28, "		
August 4, "			" 19, "
" 4, "		" 18, "	
" 11, "	August 12, "	Sept. 1, "	Sept. 2, "
" 23, "	" 24, "	" 4, "	" 7, "
" 24, "	" 27, "		
Sept. 8, "	Sept. 10, "	" 15, "	" 17, "

2. Showing as far as it is possible to get information of the vessels' movements that only two vessels left either place at due time, that the minimum detention was 1 day, the maximum 15 days, and the average 5 days; also that whilst on several occasions 2 vessels have left within 4 days of each other, there were on occasions intervals of no less than 3½ weeks without any communication.

3. Although these facts may give some idea of the irregularity of the present communication, they very inadequately represent the inconvenience and event† serious consequences often brought to our knowledge by the present want of communication; and in the hope that the Government will consider that such a state of things should no longer be allowed to exist, I beg to submit the following as the remedy.

4. What I presume, all will concur in thinking, is wanted is a *regular service* leaving Goalundo and Debrooghur, and which I would propose should, in the first instance, be weekly (I have no doubt results would very soon show it would pay to run bi-weekly at any rate between Goalundo and Gowhatty.)

---

* This vessel (the *Progress*) was five days making the trip from Kooshtea to Goalundo; and for the sake of the public, I am glad to say the Judicial Commissioner of Assam was a passenger.

† I believe loss of life has, in several instances, been caused or accelerated by this irregularity and want of communication.

5. I attach a memorandum showing the manner in which such a service could, I think, best be worked, and detailing the special arrangement proposed for carrying coolie emigrants, together with an estimate of the probable results of working, and from which it will be seen the necessary number of vessels could be constructed in the Government Dockyard, together with all other appliances for a total of Rs. 2,97,000, and that the estimated return would be upwards of 15 per cent. after setting aside 15 per cent. for insurance, depreciation, and interest on capital, thus giving a better return than the Eastern Bengal Railway Company's steamers, which have averaged 10 per cent. after setting apart 10 per cent. for depreciation and insurance.

6. The total outlay required only amounts to Rs. 550 per mile for the complete communication provided, or less than one one-hundredth part the estimated cost of the proposed State Railways.

7. I may state I have for years endeavoured to come to an arrangement with the existing Steamer Companies to form a *regular service* to work in conjunction with the railway. But these companies care naught for the public, and only look for immediate again; besides their plant is ill suited to work with regularity or despatch, and a recent and special reference to them proves they prefer the present state of things.

8. I might, I think, urge other numerous and weighty reasons why the Government should, with the least possible delay, take the necessary steps to insure such a service being established, and amongst others I may point out that with such a service, coolie emigration could be carried on in as satisfactory a manner as it is now objectionable.

9. The following figures showing the manner in which the weight of goods carried from Dacca and Naraingunge has increased since the *regular service* of the Eastern Bengal Railway was established to those places, show what regular communication will do in developing traffic, and I believe from the danger to country boats in navigating the Brahmapootra still more satisfactory results would be shown by a *regular service* on that river:—

Goods carried from Dacca and Naraingunge during half-year ending June 1866	5,568 tons.
Goods carried from Dacca and Naraingunge during half-year ending June 1872	20,725 „
Increase ...	15,157 „

No. 165GR, dated Fort William, the 31st January 1873.

From—Colonel H. Drummond, R.E., Offg. Deputy Secretary to the Government of India, Public Works Department,

To—The Offg. Secretary to the Government of Bengal, General Department.

The Government of India have received a copy of the papers submitted to the Government of Bengal by the Agent of the Eastern Bengal Railway Company with his No. 3085, dated the 1st October 1872, on the improvement of the existing communications with Assam.

2. Under its contract with the Government the Eastern Bengal Railway Company has no power to enter on such an undertaking, and the Directors of the Company also are not favorably disposed to the proposal, and the Governor-General in Council is disposed to think that these objections are conclusive against the proposals put forward; but before coming to any final conclusion in the matter, I am directed to request that the Government of India may be favored with an expression of His Honor the Lieutenant-Governor's views on the subject.

No. 833, dated Calcutta, the 19th February 1873.

From—C Bernard, Esq., Officiating Secretary to the Government of Bengal, in the General Department,

To—The Secretary to the Government of India, in the Public Works Department.

I am directed to acknowledge the receipt of your office letter No. 165GR, dated 31st January 1873, asking for the opinion of the Lieutenant-Governor on the subject of improved communication with Assam.

2. In reply, I am to submit that the Lieutenant-Governor is most strongly of opinion that improved steam communication between Goalundo and Assam is a crying necessity, and that it would be well worth the while of Government to contribute, in order to establish a regular communication for its officers and every body else. There is no prospect of any decent land communication on this route for many years to come, and the present private communication is wretched. The steamers carrying goods and coolies are most irregular. The time of starting and the time of arriving are rarely in any degree to be depended on. There has been much mortality among coolies conveyed by these steamers. Public officers

are much inconvenienced, as they never know when they can start or when they are likely to reach their destinations.

* * * * *

3. On the same principle that the Government subsidizes so highly lines of ocean steamers, the Lieutenant-Governor thinks we might very well offer a good subsidy to any company that would establish a regular weekly line of communication with Assam.

No. 297, dated Simla, the 10th May 1873.

From—R. B. Chapman, Esq., Secretary to the Government of India, Financial Department,

To—The Secretary to the Government of Bengal, General Department.

With reference to your letter No. 833, dated the 19th February last, to the Secretary to the Government of India in the Public Works Department, on the subject of improved communication with Assam, I am desired to request that, with the permission of the Hon'ble the Lieutenant-Governor, you will be good enough to ascertain and report for what subsidy any of the existing Steam Companies will undertake, under penalties, to run steamers periodically between Goalundo and Debrooghur or any further station, starting on fixed days and arriving at their destinations within fixed times.

2. The Government of India is prepared to pay half such a subsidy, if it be of reasonable amount, for a period of five years.

No. 2036, dated the 9th June 1873.

From—C. Bernard, Esq., Officiating Secretary to the Government of Bengal, General Department,

To—The Master-Attendant.

I am directed to forward copy of correspondence which has passed regarding the improvement of steamer communication between Goalundo and Assam. The existing steam service on the Berhampooter is extremely unpunctual; scarcely a month passes without complaints of the inconvenience thereby occasioned to passengers and to the traffic. Mr. Prestage's list of dates of departure of the Assam steamers during the past eight months of 1872 sufficiently shows how irregular the service has hitherto been.

As matters stand, the Eastern Bengal Railway has no power to undertake steamer communication on the Berhampooter. The Government does not consider it desirable to establish a river packet service of its own; but it is ready to consider any reasonable proposal to subsidize for a period of five years any steam-packet company which will undertake a regular steamer service on the Berhampooter.

The plan under which it was at one time proposed the Eastern Bengal Railway should subsidize steamer communication on the Berhampooter, was on the basis of the Railway Company's controlling the service and guaranteeing one-half of any sum by which the half-yearly earnings might fall short of the cost* of the service for that term. The Lieutenant-Governor considers that it will be more convenient for the Government subsidy to take the form of a payment for mileage or for each trip run, just as is the case with the subsidies to ocean steamers. The company which received a subsidy would be bound to certain penalties if time was not kept; and the Government would reserve to itself the power of directing the places at which the company's vessels must call, in addition to the ordinary calling stations appointed by the company.

* The cost was reckoned at—
(1) The actual working expenses.
(2) 10 per cent. on capital value of flotilla as a deterioration fund.
(3) 5 per cent. on capital value of flotilla as the minimum dividend.

I am now to ask that you will ascertain from the several Calcutta River Steamer Companies on what terms they would be prepared to undertake a weekly or fortnightly service on the Berhampooter, and in what way they would elect to take the subsidy if it could be given. It would perhaps be convenient for the companies to state what terms they would ask,—

(1) For a weekly packet service as far as Gowhatty;
(2) For a weekly packet service as far as Debrooghur;
(3) For a weekly packet service as far as Gowhatty, with a fortnightly service onwards to Debrooghur;
(4) For a fortnightly service as far as Gowhatty;
(5) For a fortnightly service as far as Gowhatty, with a monthly service onwards to Debrooghur.

If any company prefers to divide the journey or the number of journeys in any other way, they can make proposals and state their terms accordingly. The proposed maximum contract time for the whole journey to Gowhatty and to Debrooghur should be stated; and also the proposed amount of penalties.

The Lieutenant-Governor will be glad to receive any offers or proposals which the River Steam-ship Companies may make, with an expression of your opinion thereon as soon as possible.

RESOLUTION ON CACHAR TEA GARDENS.

JUDICIAL DEPARTMENT.

EMIGRATION.

Calcutta, the 6th June 1873.

READ—

No. 284, dated 27th December 1872.
„ 134, „ 19th April 1873.
„ 147, „ 8th May „

The letters marginally noted from the Commissioner of the Dacca Division, forwarding—

(1) the half-yearly returns of laborers employed on tea gardens in Cachar for the first half of 1872;
(2) the half-yearly returns of laborers employed on tea gardens in Cachar for the second half of 1872;
(3) the Deputy Commissioner's annual report with the Commissioner's resolution thereon;
(4) the inspection reports of gardens, together with special reports on the Pallabund and Majagram gardens.

	Number on list.
* Burkholla	7
Joynuggur	38
Sorispore	39
Indroghur	79
Kurkoria	90
Alexandrapore	104
Salchaprah	110
Buderpore	123

The returns for the second half-year of 1872 give the names of 123 gardens, but against eight* of these names, no figures are entered. In the returns for the first half of 1872, 42 laborers in Burkholla are shown as having completed their contract, while no figures are shown against gardens Nos. 38-110. Buderpore appears to be a new garden, as it was not open during the first half-year. Besides Buderpore, at which there were no laborers, three new gardens, viz., Khaspore, Rooknee, and Huirracherra appear this year for the first time in the returns. It thus appears then that in Cachar—

114 tea gardens were at work on the 1st January 1872;
1 tea garden closed work during the year;
3 new gardens were opened and worked during the year;
117 tea gardens were at work on the 31st December 1872.

2. The principal figures in the labor statistics of the year 1872 were as follows:—

Mean number of all laborers at work during the year	19,875
,, ,, of adult ,, ,, ,, ...	18,405
,, ,, of children over seven years ,, ...	1,470
,, ,, of infants under ,, and not reckoned as laborers	2,268
Percentage of mortality among adult laborers	2·8
,, ,, ,, child ,, ...	1·9
,, ,, ,, infant non-laborers	7·31
Number of deserters during the year, who were not apprehended ..	667
,, of laborers who completed their contract during the year ..	12,512
,, ,, imported ,, ,, ,, ..	3,698
,, ,, engaged in the district ,, ,, ..	11,303

It is highly satisfactory to find that so large a proportion, nearly three-quarters of the laborers engaged during the year, were coolies who had become acclimatised to Cachar, and who made their own terms on the spot with their employers. The inspection reports and the special reports of the medical officer repeat, what has often been said before, namely, that the greatest mortality always takes place among newly-arrived coolies.

3. In only a very few gardens was the mortality in any way excessive, namely:—

In Monierkhal, where it was	25 per cent.
In Kallicherra ,, ,, ...	17 ,,
In Luckhpore ,, ,, ...	10 ,,
In Pallarbund ,, ,, ...	5·47
In Nagaleeta ,, ,, ...	5·66

The first three are small, jungly gardens, with but a very few laborers. On the Monierkhal garden there were only forty-four in all. On five gardens there were eighty-six cases of cholera, which are included in the mortality-rate. Regarding the Pallarbund and Majagram gardens special reports were called for in the review of the labor statistics for 1871. The deaths on Pallarbund in 1871 were one-half of them due to cholera, and occurred mainly among newly-imported North-Western Provinces' coolies. The water and the coolies' houses are reported to be good. A native doctor is kept on the garden, and arrangements are now being made for transferring all the newly imported hands to other gardens, and employing on Pallarbund only re-engaged acclimatized laborers. The special report on Majagram was in most respects good. The coolies were said to be healthy and contented, though ten per cent. of them were in hospital at the time of the Inspector's visit.

4. If the present state of Monierkhal is not very much better, the Commissioner will be good enough to lose no time in having a committee convened, under section 112 of the Act, to consider whether the garden is not unfit for the residence of laborers. Mr. Abercrombie, it is observed, says that this garden has become a charnel-house for coolies. The figures for the two half-years of 1872 were—

	1st half-year.	2nd half-year.
At work at beginning of the half-year	39	36
Re-engaged during the ditto	10	10
Imported ditto	0	29
Completed their engagement or released ...	7	6
Deserted or were imprisoned	0	2
Died	6	5
Transferred to other gardens	0	4
Remaining at end of the year	36	58
Percentage of mortality of the half-year ...	16	10

However the figures are taken, the mortality was very bad, and it seems very sad that twenty-nine newly-arrived coolies, ignorant of the country to which they were going, should be forced by highly penal laws to remain in such a place. There should be no delay in making the necessary inquiries.

5. The mortality among infants is still high, though it is 2½ per cent. less than it was in the year 1871. The percentage of infant mortality on the different gardens cannot be usefully compared. On one garden it is shown as 100 per cent., because three little babes, who were born there during the year, died shortly after their birth. The Lieutenant-Governor hopes that, as the Commissioner and Deputy Commissioner believe, there are many more infants in the tea gardens than the returns show; and he trusts that Messrs. McWilliam and Abercrombie are right in saying that tea coolies generally have large families of fat, happy-looking children. Certainly children are riches to a tea cooly since their labor is so valuable.

6. On the whole, the inspection reports and the present returns bear out the view which the Lieutenant-Governor expressed in the resolution on the returns for 1871, that the coolies on Cachar tea gardens are, in the main, contented, healthy, and well cared for. The growing tendency, remarked upon by Mr. McWilliam, of re-engaged coolies to transfer their services to other gardens, does not greatly affect this view.

7. There is some doubt thrown on all the percentages by the fact that some gardens do not make returns for time-expired and local coolies. The census of January 1872 showed that 40,000 people were resident on the Cachar tea gardens, though the labour returns for the same month showed only 20,622 laborers and infants. The returns of laborers *imported* during the year may, however, be taken as nearly correct, but the Lieutenant-Governor would wish that in future returns the number of newly-imported coolies, who are brought by garden sirdars, may be separately shown from the ordinary contractors' coolies. The coolies remaining at Cachar at the end of the year 1872, as stated to have belonged to the several emigrant tracts, are the following numbers :—

Bengali laborers	10,189
Chota Nagpore laborers	3,411
North-West Provinces' laborers	5,306
Nepal laborers	13
Madras ditto	263

Probably, however, most of the people classed as Bengalis are not real Bengalis, as the term is used generically in the tea districts, and most of these people are, it is believed, of aboriginal tribes—Dhangurs, &c., recruited on the western borders of Bengal. In the review of the returns for 1871 it was noticed that the mortality was lowest among North-West Provinces' coolies. The returns for the year 1872 show a different result. If the deaths among adults only be taken, the figures for the two years compare thus—

	1871.	1872.
Percentage of mortality among laborers from Bengal	2·5	2·5
Ditto ditto ditto Chota Nagpore ...	2·7	2·3
Ditto ditto ditto N. W. Provinces ...	1·9	3·1

From these figures it would seem that the North-Western Provinces' laborers were least healthy during the year 1872. The Medical Officer, Dr. Nelson, in more than one of his special reports refers to the North-Western Provinces' coolies as least able to resist the climate of jungly gardens.

8. The Lieutenant-Governor hopes that the Commissioner's injunctions to stop the spread of drunkenness, which is said by the Inspectors to be growing common on some gardens, will be borne in mind by the district officer. It is in the discretion of Deputy Commissioners to refuse licenses for new shops, and to close old ones in the neighbourhood of cooly lines. We can hardly expect that tea coolies, who often have plenty of money in their pockets, will never get drunk on a holiday or market-day; but at any rate we can prevent the multiplication of liquor shops close to cooly lines; and the Lieutenant-Governor believes that tea planters will readily co-operate in this matter by bringing to the notice of the Deputy Commissioner any liquor shops where their coolies habitually get drunk.

9. The inspections by the Deputy Commissioner and his two assistants have been frequent and punctual. Only four gardens, one of them, however, being the garden of Monierkhal, above mentioned, remained uninspected at the close of the year. The returns have been furnished more punctually and completely than was ever the case before. These results are satisfactory. Mr. Clementson especially has performed a large amount of inspection work. He visited eighty-six gardens, and his inspection reports are complete.

Prices-Current of Food-grains and Salt in the undermentioned

DIVISIONS.		DISTRICTS.	QUANTITIES PER RUPEE											
			WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		BENGAL.												
		Western Districts.												
			S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
BURDWAN	1	Burdwan	15 0	13 8	16 0	25 8	22 8	21 0	19 0	17 0	23 8	20 8	20 8	24 12
	2	Bancoorah	15 8	17 8	16 4	23 0	24 0	21 0	16 8	17 8	20 12	19 8	20 0	23 12
	3	Beerbhoom	16 8	17 0	21 0	19 0	20 0	25 0	18 0	18 0	22 7	21 0	21 0	26 0
	4	Midnapore	12 0	13 0	15 0	...	...	14 0	19 0	20 0	20 0	25 0	26 0	23 0
	5	Hooghly	15 0	16 0	18 0	...	...	...	10 0	10 0	16 0	18 8	19 0	20 0
		Howrah	15 0	15 0	19 0	26 0	26 0	25 0	16 0	16 0	16 0	20 0	20 0	20 0
		Central Districts.												
PRESIDENCY	6	24-Pergunnahs	13 5	14 8	18 0	20 0	22 8	20 0	8 0	8 0	8 0	19 0	17 12	17 12
	7	Nuddea	15 4	15 4	17 12	32 0	32 0	32 0	16 0	16 12	17 12	17 12	17 12	18 14
	8	Jessore	16 0	16 0	18 0	...	...	...	19 8	19 12	20 0	26 0	26 0	20 0
RAJSHAHYE	9	Moorshedabad	16 0	18 0	20 0	...	...	...	14 0	14 0	18 0	19 0	18 0	18 0
	10	Dinagepore	15 0	15 0	15 0	22 8	22 8	21 0	23 0	24 0	25 0	27 8	27 0	30 0
	11	Maldah	19 0	20 0	20 0	35 0	35 0	38 0	22 0	22 0	25 0	23 0	23 0	26 0
	12	Rajshahye	16 8	17 4	16 14	33 12	33 12	45 0	15 0	15 0	16 0	21 0	22 8	24 0
	13	Rungpore	19 0	18 0	18 0	...	...	...	14 0	14 0	16 5	24 0	25 14	25 14
	14	Bograh	18 0	16 8	19 8	...	...	...	15 0	15 12	18 0	30 0	30 0	35 4
	15	Pubna	20 0	21 0	22 8	...	...	...	12 0	12 0	15 0	26 4	26 4	26 4
COOCH BEHAR	16	Darjeeling	6 0	6 0	8 0	10 0	10 0	10 0	11 0	11 0	13 0	13 0	12 0	13 0
	17	Julpigoree	10 0	15 0	10 0	...	...	...	12 0	15 0	8 0	16 0	20 0	18 0
		Cooch Behar.*												
		Eastern Districts.												
DACCA	18	Dacca	12 0	12 0	18 0	20 0	27 0	23 0	21 0	20 0	20 0	30 0	28 0	29 0
	19	Furreedpore	21 4	20 0	23 0	40 0	40 0	35 0	10 0	10 0	10 0	25 0	25 0	27 0
	20	Backergunge	...	...	...	...	...	...	13 8	13 8	20 0	27 0	28 0	26 0
	21	Mymensing	13 0	22 8	18 0	...	...	...	24 0	22 8	21 0	32 0	32 0	32 0
	22	Sylhet	8 0	12 0	9 0	11 8	11 8	11 8	22 0	23 0	22 8	32 0	32 0	44 0
	23	Cachar	9 6	8 14	8 14	...	...	...	24 10	26 10	22 13	29 1	30 8	29 1
CHITTAGONG	24	Chittagong	13 0	13 0	14 0	...	...	...	16 0	16 0	16 0	24 0	24 0	24 0
	25	Noakhally	...	...	...	...	...	...	16 0	16 0	18 0	24 0	24 0	26 0
	26	Tipperah	9 8	10 0	15 0	...	...	...	20 0	20 0	20 0	32 8	32 8	32 8
	27	Chittagong Hill Tracts	...	...	...	...	...	...	13 5	16 0	13 5	16 0	20 0	20 0
		Hill Tipperah	10 6	10 6	10 5	...	...	...	21 6	22 5	23 1	32 0	32 0	38 0
		BEHAR.												
PATNA	28	Patna	16 0	16 0	24 0	27 0	28 0	31 4	16 0	17 8	...	17 12	18 0	21 0
	29	Gya	16 0	16 0	20 0	28 0	29 0	37 8	12 4	12 0	12 0	16 0	17 0	28 0
	30	Shahabad	16 0	16 0	21 0	26 0	24 0	30 0	11 0	12 0	12 0	16 0	17 0	21 0
	31	Tirhoot	14 0	14 0	18 0	28 0	30 0	30 0	19 0	19 0	16 0	20 0	20 0	17 0
	32	Sarun	14 0	14 0	18 0	25 0	26 0	29 0	12 8	13 0	14 0	16 8	17 0	19 0
	33	Chumparun	16 0	17 0	21 0	35 0	35 0	40 0	13 0	13 0	14 0	17 0	20 0	22 0
BHAUGULPORE	34	Monghyr	19 9	19 9	24 1	33 6	35 7	40 8	13 6	13 6	14 1	16 1	16 8	19 3
	35	Bhaugulpore	20 3	20 3	23 6	31 9	31 9	37 14	15 2	15 2	18 15	16 6	16 6	24 0
	36	Purneah	15 0	15 0	12 0	30 0	30 0	40 0	18 0	20 0	25 0	21 0	23 0	31 0
	37	Sonthal Pergunnahs	14 0	14 0	16 0	...	...	...	16 0	16 0	21 0	18 0	18 0	26 0
		ORISSA.												
ORISSA	38	Cuttack	15 12	18 6	14 6	...	...	...	21 0	23 10	20 4	27 9	30 3	26 2
	39	Pooree	15 12	15 12	15 12	...	...	...	19 11	21 0	22 5	33 0	38 0	31 8
	40	Balasore	12 0	12 0	...	...	...	...	18 0	16 0	...	38 0	38 0	...
		CHOTA NAGPORE.												
		South-West Frontier Agency.												
CHOTA NAGPORE	41	Hazareebaugh	16 0	16 0	19 0	...	22 0	27 8	11 0	12 0	12 8	17 0	17 0	21 8
	42	Lohardugga	14 0	14 0	14 0	17 0	24 0	30 0	15 0	15 0	20 0	18 0	17 0	24 0
	43	Singbhoom	18 0	18 0	23 0	24 0	24 0	37 0	20 0	20 0	29 0	32 0	32 0	37 0
	44	Maunbhoom	16 0	16 0	17 0	28 0	28 0	24 0	16 0	17 0	18 0	23 0	24 0	24 8
		ASSAM AND ADJACENT HILLS.												
ASSAM	45	Gowalpara	25 0	20 0	20 0	...	...	...	15 0	14 0	13 4	22 0	21 0	20 0
	46	Kamroop	13 0	13 0	20 0	...	...	...	12 0	16 0	10 0	20 0	20 0	26 0
	47	Durrung	10 0	10 0	10 0	...	...	...	13 0	13 0	13 0	21 0	21 0	16 0
	48	Nowgong	16 0	16 0	16 0	...	...	...	12 0	12 0	13 0	18 0	18 0	18 0
	49	Seebsaugor	13 0	13 0	13 0	16 0	...	16 0	8 0	8 0	16 0	12 0	12 0	24 0
	50	Lukhimpore.*												
	51	Naga Hills.*												
	52	Khasi and Jynteah Hills	...	...	...	...	...	...	11 0	12 0	...	15 0	13 0	...
	53	Garo Hills.*												

* Return not received.

CALCUTTA,
The 10th June 1873.

Districts of Bengal on the 31*st May* 1873.

BY THE SEER OF 80 TOLAHS.

Bajra.			Jowar.			Gram.			Ragi or Murwa.			Maize or Indian corn.			Salt.			REMARKS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	
...	...	...	...	...	...	23 0	21 0	24 0	...	...	...	...	...	...	9 4	9 4	9 0	
27 0	31 0	26 8	35 0	39 0	35 0	22 12	22 0	17 8	...	...	...	...	...	...	8 5	8 8	8 14	
...	...	...	...	...	...	22 8	25 8	27 0	...	...	...	...	...	...	8 12	8 12	8 8	
...	...	...	...	...	...	18 0	18 0	18 0	...	...	...	...	...	...	8 4	8 6	8 8	
...	...	...	...	...	...	22 8	20 0	18 0	...	...	...	...	...	...	9 0	9 0	8 0	
...	...	...	...	...	...	20 0	20 0	21 0	...	...	...	...	...	...	9 0	9 0	10 0	
...	...	...	...	...	...	20 0	22 8	18 0	...	...	...	...	...	...	8 12	8 12	9 0	
...	...	...	...	...	...	29 0	29 0	29 0	...	...	...	...	...	...	8 14	8 14	9 12	
...	...	...	...	...	...	22 8	22 8	22 0	...	...	...	...	...	...	8 0	8 0	8 0	
...	...	...	...	...	...	28 0	30 0	27 0	...	...	...	...	...	...	8 8	8 0	8 8	
...	...	...	...	...	...	18 12	18 12	19 4	...	...	...	...	...	...	6 8	7 0	7 8	
...	...	...	...	...	...	24 0	20 0	22 0	...	...	...	...	...	...	8 0	8 0	8 0	
...	...	...	...	...	...	25 5	27 0	...	...	...	...	...	...	...	7 4	7 15¼	...	
...	...	...	...	...	...	15 0	18 0	18 0	...	...	...	...	...	...	7 0	7 9	7 8	
...	...	...	...	...	...	18 0	15 12	18 0	...	...	...	...	...	...	6 0	8 0	8 0	
...	...	...	...	...	...	26 4	26 4	30 0	...	...	...	...	...	...	8 0	8 4	8 8	
...	...	...	...	...	...	8 0	8 0	8 0	...	...	...	20 0	18 0	20 0	4 8	4 8	4 8	
...	...	...	...	...	...	12 0	12 0	12 0	...	...	...	...	...	...	7 0	6 0	7 0	
21 0	22 0	...	...	...	...	20 0	22 0	20 0	...	...	...	...	...	...	9 0	9 0	9 0	
...	...	...	...	...	...	22 8	16 0	23 8	...	...	...	...	...	...	7 8	7 8	8 0	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8 8	8 8	8 0	
...	...	...	...	...	...	21 0	20 0	18 0	...	...	...	...	...	...	8 0	8 0	8 8	
...	...	...	...	...	...	20 0	18 0	20 0	...	...	...	...	...	...	8 4	8 0	9 0	
...	...	...	...	...	...	13 5	13 5	16 13	...	...	...	...	...	...	8 0	8 0	8 10	
...	...	...	...	...	...	16 0	16 0	16 0	...	...	...	...	...	...	7 8	7 8	8 0	
...	...	...	...	...	...	16 0	16 0	14 0	...	...	...	...	...	...	7 8	7 8	8 0	
...	...	...	...	...	...	16 0	18 0	18 0	...	...	...	...	...	...	8 8	8 8	8 12	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6 4	6 4	6 8	
...	...	...	...	...	...	10 6	10 6	9 5	...	...	...	...	...	...	8 0	8 0	7 8	
...	...	...	34 8	35 0	35 0	28 0	30 0	35 0	...	...	...	...	...	...	8 0	8 0	8 0	
...	...	...	...	...	...	21 4	22 0	25 0	...	...	...	...	...	...	7 8	7 6	7 8	
...	...	...	...	...	...	27 0	29 0	31 0	...	...	...	...	...	...	8 0	8 0	8 4	
...	...	...	...	...	...	22 8	23 8	22 8	32 0	...	...	30 0	...	...	7 8	7 8	7 8	
...	...	...	...	...	...	25 0	26 0	26 0	32 0	...	...	24 0	24 0	23 0	8 0	8 0	8 0	
...	...	...	...	...	...	26 0	26 0	22 0	...	...	...	32 0	...	...	6 12	7 0	7 0	
...	...	...	...	...	...	30 4	30 4	34 1	...	...	...	27 3	...	...	8 1	8 1	8 3	
...	...	...	...	30 5	34 1	26 14	27 12	29 0	63 11	...	80 11	...	...	...	7 14	8 3	8 3	
...	...	...	...	...	...	26 0	23 0	30 0	...	...	...	...	...	...	7 5	7 5	7 5	
32 0	32 0	45 0	40 0	40 0	45 0	21 0	21 0	19 0	50 0	...	...	40 0	...	...	8 0	8 0	8 0	
...	...	...	...	...	...	26 4	27 9	25 7	...	...	...	...	...	...	9 2	9 2	8 3	
...	...	...	...	...	...	23 10	23 10	21 0	...	...	...	...	...	...	9 0	9 0	9 0	
...	...	...	...	...	...	10 0	10 0	...	...	...	...	...	...	...	7 0	7 0	...	
...	...	...	...	...	...	19 0	17 0	20 8	30 0	...	...	...	...	...	7 4	7 8	7 2	
...	...	...	...	...	...	14 0	16 0	14 0	30 0	...	...	24 0	26 0	32 0	6 0	6 0	6 0	
...	...	...	...	...	...	18 0	18 0	21 0	...	...	...	...	...	...	6 0	6 0	5 0	
...	...	...	40 0	40 0	40 0	22 0	22 0	18 0	...	...	...	...	...	...	8 0	8 0	7 8	
...	...	...	...	...	...	10 0	8 0	16 0	...	...	...	...	...	...	8 0	8 4	8 8	
...	...	...	...	...	...	12 0	13 8	9 0	...	...	...	...	...	...	8 0	8 0	8 0	
...	...	...	...	...	...	8 0	8 0	8 0	...	...	...	...	...	...	6 8	6 8	6 0	
...	...	...	...	...	...	8 0	8 0	10 0	...	...	...	...	...	...	6 8	6 8	7 0	
...	...	...	...	...	...	8 0	8 0	8 0	...	...	...	...	...	...	4 0	6 0	6 0	
...	...	...	...	...	...	8 0	8 0	...	...	...	...	...	...	...	5 0	5 0	...	

Published for general information.

R. Knight,

Asst. Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 7th June 1873.

No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
BENGAL.						
	Western Districts.	1873.				
	BURDWAN DIVISION.					
1	Burdwan ...	June 10th*	1·22	Weather hot.	More rain wanted for the sowing of aus and amun crops. Grain market firm.	Fever prevalent.
2	Bancoorah ...	„ 7th	1·36	Rain has fallen all over the district. Temperature much lower.	The fall of rain has benefited indigo, &c., and has allowed ploughing to commence.	
3	Beerbhoom ...	„ 7th	2·55	Till the 4th instant intense dry heat, on the 4th great heat, but atmosphere moist, and heavy rain in the evening, and rain on the two following days. Rain general.	The rain has been of great benefit to the sugarcane crop now being planted out. It has enabled the ryots to break up rice lands.	A few cases of cholera and small-pox continue to occur.
4	Midnapore ...	„ 7th	0·95	Sultry and trying. Barometer low.	No change. Rains daily anticipated.	
5	Hooghly ...	„ 7th	0·83	Clear and cloudy, excessive heat till Friday evening, when a light shower cooled the air; a little wind from the south.	Aus crop has almost been sown; ploughing still going on for amun crops. More rain very much wanted for the new crops.	
	Howrah ...	„ 7th	0·52	Slight rain on two days all over the district, excepting only the extreme west.	In a few places where amun paddy was sown the seedlings have appeared, but are suffering from want of rain. Generally speaking the amun paddy has not yet been sown. Prospects of aus dhan not good. Rain much wanted for all crops.	
	Central Districts.					
	PRESIDENCY DIVISION.					
6	24-Pergunnahs ...	„ 10th	Nil	Very hot. There was no rain at Alipore or Baraset during the week, and the rainfall at other places was small.	Rain much needed throughout the district. Ploughing going on; the aus plants in some places are being parched up for want of rain. Aus sowings still progressing.	General health good; a few cases of cholera reported at Baraset. Fever prevalent in the Barriepore sub-division.
7	Nuddea ...	„ 7th	1·34	Rain in the latter part of the week.	Dhan and indigo are backward in consequence of the dry weather, but the rain has done much good.	
8	Jessore ...	„ 7th	0·56	Cloudy, hot and windy, but very little rain. Wind varying from south to south-east.	In the north of the district the rice crop is suffering from want of rain which is much required both for rice and indigo. In the central and southern parts the prospects of the different crops are good, but more rain is wanted in the central portion.	
	RAJSHAHYE DIVISION.					
9	Moorshedabad ...	„ 7th	1·23	Rain has fallen generally over the district and more is expected.	Fresh sowings are going on in many parts of the district. The rain has been beneficial to the indigo and the dhan seedlings where they have survived the recent drought.	
10	Dinagepore ...	„ 7th	2·93	Very hot and sultry in early part of week; a good fall of rain on Thursday has made it much cooler.	The rain has come in time to save the bhadoi rice crop, and it will do a deal of good to all other crops in the ground. The jute crop has undoubtedly suffered to some extent from want of rain.	
11	Maldah ...	„ 7th	1·12	The first five days were hot and dry with occasional clouds, thunder and lightning. Rain fell on Friday.	The prospects of the bhadoi and amun dhan were looking very bad owing to the continued want of rain, but the heavy rain of Friday will do great good. Mango crop very poor.	

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* Telegram of the 10th June received on the same day.

BENGAL.—(*Contd.*)

	No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
		Central Districts.—(Contd.)	1873.				
RAJSHAHYE DIVISION.—(*Contd.*)	12	Rajshahye ...	June 7th	2·74	Strong wind blew almost all the days of the week and the days were hot.	The rain of the week has slightly improved the prospects of the young crops of amun and aus and has also been beneficial to the cultivation of the same. Teel and boro paddy crops are being harvested. Mulberry plants are thriving.	
	13	Rungpore ...	" 7th	2·96	High winds. Hurricane occurred on the 2nd instant to the south.	The crops improved by the rain; more wanted to the south.	
	14	Bograh ..	" 7th	2·23	Earlier part of the week very hot. Latter part showery.	The rain has just saved most of the rice and jute, but the earlier sowings have suffered. Kaun has also been scorched. Mulberry now looks well. Sugarcane planting is completed.	
	15	Pubna ...	" 7th	0·99	There was rain and a storm on 31st May and on the 1st and 3rd June. Weather cloudy and hot.	The crops are in a good state. The amun crop is nearly sown. More rain wanted for indigo.	
COOCH BEHAR DIVISION.	16	Darjeeling ...	" 7th	1·24	Want of rain is complained of, specially in the terrai, where the heat is said to be intense.	The hill crops generally look well, but more rain is wanted. In the plains scorching heat is complained of, and it is feared that the bhadoi dhan will suffer unless there is rain soon.	
	17	Julpigoree ...	" 7th	3·0	Rain set in on Wednesday, since when the weather has been cool and pleasant.	Jute and dhan good, taken all round, but a portion of the dhan has been lost owing to previous want of rain.	
		Cooch Behar ...	" 7th	12·53	The rainy season set in at the beginning of the week.	The rain has done much good. Prospects are favorable.	
		Eastern Districts.					
DACCA DIVISION.	18	Dacca ...	" 10th*	1·69	Weather very hot and more rain wanted.	Prospects of crops good, if the rivers do not rise rapidly.	
	19	Furreedpore ...	" 7th	2·54	Tolerably hot weather.	Crops progressing very satisfactorily.	
	20	Backergunge ...	......	...	......	......	Return not received.
	21	Mymensing ...	" 7th	5·21	There has been abundant but not excessive rain.	The crops are doing very well.	
	22	Sylhet ...	May 31st	0·16	Wonderfully cool, considering the little rainfall. Since Monday the weather has been pleasant.	More rain wanted for all the crops. If this drought continues the harvest will be a very bad one.	
	23	Cachar ...	" 31st	3·50	Hot and sultry, with heavy rain on the night of the 29th May.	The weather is a little more favorable, but very little ploughing done.	
CHITTAGONG DIVISION.	24	Chittagong ...	" 31st	0·46	A squall, with thunder, lightning and rain from west and south-west on the 26th May. Weather generally more cloudy and cooler than last week. Occasional showers, light in the station, but apparently heavier towards the eastern ranges.	Nothing new to report. Ploughing for early sowings is going on, but field work will not regularly commence till more rain falls.	Some cases of cholera reported from sudder and Potia stations. Fever continues prevalent.
	25	Noakhally ...	" 31st	2·8	The rains have set in during the past week.	Chillies, sesamum and moog eaped and gathered; sowing g of aus dhan commenced.	
	26	Tipperah ...	June 7th	1·75	The rains would seem to have commenced. In the sub-division rain fell 2·88 inches	ain very beneficial, especially to jute crop, in Brahmunberiah, which was getting dried up. Other prospects favorable.	
	27	Chittagong Hill Tracts	May 31st	2·04	The first half of the week very close. Rains set in on the 29th May.	Early joom crops partially scorched by recent excessive heat.	
		Hill Tipperah ...	" 31st	0·25	Excessively hot ...	Ploughing going on; more rain wanted.	

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* Telegram of the 10th June received on the same day.

	No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
BEHAR.			1873.				
PATNA DIVISION.	28	Patna ...	June 10th*	0·18	Weather very hot and trying.	Rain much wanted to allow the agriculturists to prepare their lands.	Cholera and small-pox cases still reported in considerable numbers.
	29	Gya ...	„ 7th	Slight rain.	Hot. Slight rain not sufficient to be measured.	Sugarcane progressing ...	Small-pox rife.
	30	Shahabad ...	„ 7th	Nil	Excessive heat, with clouds and west wind.	Sugarcane only in the ground.	Cholera and small-pox still prevalent in places.
	31	Tirhoot ...	„ 7th	Nil	Intensely hot with, strong wind generally from the east.	Rain much wanted for every crop on the ground, especially for the indigo. Complaints are heard that scarcity may be expected if there be no rain within a week.	There are still cases of cholera in the sub-division of Tajpore.
	32	Sarun ...	„ 7th	Nil	Heat excessive; east and west winds.	Moog, boro dhan and sugarcane, are doing well. Cheena is being harvested. A good outturn is expected. The prospects of indigo on the whole continue favorable, but the moisture in the fields has dried up, and the leaves of the plants have to some extent been scorched by the great heat. Rain much wanted.	
	33	Chumparun ...	„ 7th	Nil	Weather very hot, with east wind; cloudy now and then.	Rain much wanted.	
BHAUGULPORE DIVN.	34	Monghyr ...	„ 7th	Nil	Very hot, with alternate west and east winds.	Rain much wanted. Bhadoi prospects bad.	Cholera bad at Begooserai.
	35	Bhaugulpore ...	„ 10th*	1·13	Rain reported in the north and south of the district; easterly wind. Rain evidently setting in.	Bhadoi crops and indigo bad.	Small-pox prevalent in Bhaugulpore and Colgong.
	36	Purneah ...	„ 7th	Nil	Rather cool ...	Rain much wanted for all crops.	
	37	Sonthal Pergunnahs ...	„ 7th	2·73	Several heavy north-westers, with much rain during the week.	People busy ploughing, also sowing Indian corn.	
ORISSA.							
ORISSA DIVISION.	38	Cuttack ...	„ 10th*	Nil	Weather very hot ...	Rain fell at Jungutsingpore ...	Cholera along the road, chiefly at Dhurmsala.
	39	Pooree ...	May 31st	4·14	Some seasonable rain during the week.	Dalua crop is being reaped in certain pergunnahs. Sarud paddy is sown in low lands, and in certain places the fields are being ploughed for the crop. Cotton is being gathered. Sugarcane plants are now being earthed up. The rain has been beneficial.	
	40	Balasore ...	June 7th	Nil	Cloudy and close; slight rain in the south.	Ploughing and sowing going on actively.	
CHOTA NAGPORE.							
		South-West Frontier Agency.					
	41	Hazareebaugh ...	„ 7th	0·1	Seasonable; very hot west wind during the day, chopping round to east in the evening and becoming cloudy.	Rain much needed ...	Small-pox still prevalent.
	42	Lohardugga ...	„ 7th	Nil	Steamy, with heavy clouds and strong wind from the south.	The low lands and, in parts of the district, the high lands are being sown.	
	43	Singbhoom ...	May 31st	0·61	It has rained since last report and the weather is now cooler. More rain threatening.	Gora dhan in course of sowing. Sowings of goondli and kriri completed. More rain required for these.	
	44	Maunbhoom ...	June 7th	Nil	Cloudy and hot.	Rain is now wanted to make the early crops germinate and enable the cultivators to plough up the lands remaining to be done.	Cholera and small-pox still prevalent.

* Telegram of the 10th June received on the same day.

No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
ASSAM AND ADJACENT HILLS.		1873.				
45	Goalparah ...	May 31st	Nil	The weather is extremely hot and close. Not a drop of rain during the week.	Rain is wanted in all parts of the district. The prospects of the asu crops will be endangered if the weather continues in this state.	Cholera and small-pox are prevalent in the sudder station and interior.
46	Kamroop ...	June 9th*	4·46	Weather changeable with tendency to continued heavy rain.	Prospects of aus crop, tea, cotton, and sugarcane, more favorable than last reported.	Public health good.
47	Durrung ...	May 31st	0·36	Temperature high; south-west wind prevailing.	Sowing going on, as also ploughing.	A little cholera and small-pox reported, but not much. The same remark applies to cattle disease.
48	Nowgong ...	„ 31st	2·13½	Cloudy weather, close and oppressive, with occasional showers.	The aus crop doing well. Tea prospects better since the rain has fallen.	A few cases of cholera reported from Dhing and Oogoree. Cattle murrain is reported to be diminishing and dying out.
49	Seebsaugor ...	„ 31st	Nil	Fair ...	The sowing of rice nurseries is kept back for want of rain. The aus crop promises well. Tea doing fairly.	Cattle disease continues.
50	Luckimpore ...	„ 31st	1·63	A heavy squall, accompanied by thunder, lightning, and rain, on Wednesday night; the three previous days were excessively hot, and the last two days were also very warm. At North Luckimpore dry and hot weather throughout the week, sometimes cloudy and threatening rain. A heavy storm on the night of the 22nd May.	Young rice nurseries are being prepared and the low lands commenced to be ploughed. Prospects of all crops good.	Cholera in several localities; otherwise general health good.
51	Naga Hills ...	„ 24th	0·13	No rain again, and the weather extremely hot and feverish.	Bad generally, especially the joom crops, which are drying up for want of rain.	
52	Khasi & Jynteah Hills	„ 31st	2·32	Rain has fallen more or less throughout the hills and is seasonable.	The rice, Indian-corn, and job's-tears cultivation is doing well. The potatoes in parts are good, but in some places the want of rain has injured them.	Cholera has subsided at Cherra and the cattle murrain is confined to a few casualties at Shillong.
53	Garo Hills ...	„ 31st	1·34	First part of the week extremely hot and unpleasant. On Wednesday rain fell for the first time after a fortnight. Occasional showers since Wednesday, which have cooled the air. More and heavier rain seems impending.	Fears were entertained of the prospects of the dhan crop which had suffered much from want of rain. The fields seemed quite parched up. It is however hoped since the fall of rain that matters will improve and that the crop will not be seriously affected.	

* Telegram of the 9th June received on the 10th.

Published for general information.

CALCUTTA, STATISTICAL DEPT.,
The 10th June 1873.

R. KNIGHT,
Asst. Secy. to the Govt. of Bengal.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

Division.	District.	Station.	Rain from 18th to 24th May 1873.	Rain from 25th to 31st May 1873.	Rain from 1st January 1873.		Remarks.
					Inches.	Up to date.	
BENGAL.			Inches.	Inches.	Inches.	1873.	
	WESTERN DISTRICTS.						
BURDWAN.	Burdwan	Burdwan	Nil	0·73	9·61	31st May.	
		Cutwa	ditto	0·39	6·69	ditto.	
		Culna	ditto	0·29	6·81	ditto.	
		Bood-Bood	ditto	0·23	7·00	ditto.	
		Raneegunge	ditto	Nil	4·44	ditto.	
		Jehanabad	ditto	0·57	5·86	ditto.	
	Bancoorah	Bancoorah	ditto	0·32	9·20	ditto.	
	Beerbhoom	Sooree	ditto	0·61	2·57	ditto.	
	Midnapore	Midnapore	0·89	0·66	12·06	ditto.	
		Tumlook	0·31	0·09	6·72	ditto.	
		Gurbetta	Nil	0·35	6·89	ditto.	
		Contai Dy. Collr.'s Office	ditto	1·00	4·77	ditto.	
		Exe. Engr.'s Office	ditto	1·37	6·77	ditto.	
	Hooghly	Hooghly	0·02	0·51	7·86	ditto.	
		Serampore	Nil.	0·79	7·67	ditto.	
	Howrah	Howrah	ditto	0·48	6·64	ditto,	
	CENTRAL DISTRICTS.						
PRESIDENCY.	24-Pergunnahs	Saugor Island	ditto	1·40	6·83	ditto.	
		Calcutta	ditto	0·96	6·80	ditto.	
		Alipore Dispensary	ditto	1·42	6·85	ditto.	
		Jail	ditto	Not rec.	5·14	24th May.	
		Busseerhaut	ditto	1·39	4·75	31st May.	
		Baraset	ditto	0·73	5·20	ditto.	
		Diamond Harbour	ditto	0·35	6·90	ditto.	
		Barripore	ditto	2·17	9·17	ditto.	
		Satkherah	ditto	2·35	8·27	ditto.	
		Barrackpore	ditto	0·85	7·57	ditto.	
		Dum-Dum	ditto	0·18	6·76	ditto.	
	Nuddea	Kishnaghur	0·78	0·65	7·80	ditto.	
		Bongong	Nil	2·04	5·99	ditto.	
		Meherpore	1·75	0·40	6·65	ditto.	
		Chooadangah	0·34	3·20	7·60	ditto.	
		Kooshtea	0·50	0·82	7·57	ditto.	
		Ranaghat	0·53	0·88	5·52	ditto.	
	Jessore	Jessore	0·71	0·95	7·12	ditto.	
		Nurail	0·51	1·35	12·50	ditto.	
		Khoolneah	0·80	1·10	11·22	ditto.	
		Jenidah	Not rec.	0·30	7·04	ditto	Not received, 18th to 24th May.
		Bagirhaut	0·13	3·86	11·41	ditto.	
		Magoorah	0·24	0·71	10·60	ditto.	
RAJSHAHYE.	Moorshedabad	Berhampore	Nil	0·35	3·09	ditto.	
		Ramporehaut	ditto	Nil	3·21	ditto.	
		City Moorshedabad	ditto	0·03	2·17	ditto.	
		Jungipore	ditto	0·04	2·89	ditto.	
		Azimgunge	ditto	0·20	3·23	ditto.	
		Lalgolla	ditto	0·20	3·27	ditto	From 1st February.
	Dinagepore	Dinagepore	ditto	0·34	2·46	ditto.	
	Maldah	Maldah	ditto	Nil	1·99	ditto.	
	Rajshahye	Beauleah	ditto	0·14	3·52	ditto.	
		Nattore	ditto	Nil	6·97	ditto.	
	Rungpore	Rungpore	ditto	0·77	10·50	ditto.	
		Bhowanigunge	ditto	0·31	7·03	ditto.	
		Titalya	0·20	0·62	9·89	ditto.	
	Bograh	Bograh	Nil	0·06	5·93	ditto.	
	Pubna	Pubna	0·12	1·91	11·24	ditto.	
		Serajgunge	Not rec.	1·54	5·53	ditto.	Not received, 20th to 26th April, and 18th to 24th May.
COOCH BEHAR.	Darjeeling	Darjeeling Telegraph Office	ditto	Not rec.	9·51	30th April.	
		Hospital	0·20	1·20	11·98	31st May.	
	Julpigoree	Julpigoree	0·04	0·02	11·00	ditto.	
		Fallacotta	0·19	0·47	17·86	ditto.	
		Bodah	Nil	0·90	10·73	ditto.	
	Cooch Behar Tributary State	Cooch Behar	0·11	Nil	12·71	ditto.	
	Bhûtan Dooars	Buxa	Nil	Not rec.	7·48	24th May.	
	EASTERN DISTRICTS.						
DACCA.	Dacca	Dacca Telegraph Office	0·10	0·11	14·87	31st May.	
		Hospital	Nil	0·05	10·40	ditto.	
		Moonshegunge	ditto	0·53	13·18	ditto.	
		Manickgunge	0·25	0·65	16·30	ditto.	
	Furreedpore	Furreedpore	0·31	1·35	15·13	ditto.	
		Goalundo	0·77	2·42	8·56	ditto.	
	Backergunge	Burrisaul	Nil	3·44	9·81	ditto.	
		Perozepore	0·07	3·36	10·44	ditto.	
		Madaripore	Nil	3·21	16·87	ditto.	
		Patooakhally	ditto	8·42	17·66	ditto.	
		Dowlat Khan	ditto	3·60	13·47	ditto.	
	Mymensing	Mymensing	0·74	0·84	7·98	ditto.	
		Jamalpore	0·30	Nil	11·28	ditto.	
		Atteah	Nil	0·41	8·62	ditto.	
		Kishoregunge	0·36	2·34	10·67	ditto.	
	Sylhet	Sylhet	0·32	0·44	24·97	ditto.	
	Cachar	Cachar	0·20	3·50	23·39	ditto.	
		Hylakandy	0·60	Not rec.	21·36	24th May	
		Koyah	Nil	0·70	15·02	31st May.	
CHITTAGONG.	Chittagong	Chittagong Telegraph Office	Nil	1·30	10·30	ditto.	
		Jail	ditto	0·49	11·40	ditto.	
		Cox's Bazar	ditto	2·99	16·19	ditto.	
	Noakhally	Noakhally	ditto	3·23	22·29	ditto.	
	Tipperah	Comillah	0·85	0·38	13·67	ditto.	
		Brahmanbariah	1·56	0·20	14·38	ditto.	
	Chittagong Hill Tracts	Rungamutee Hill	Nil	2·04	9·60	ditto.	
	Hill Tipperah	Hill Tipperah	0·63	0·25	14·27	ditto.	

Division.	District.	Station.	Rain from 18th to 24th May 1873.	Rain from 25th to 31st May 1873.	Rain from 1st January 1873. Inches.	Rain from 1st January 1873. Up to date.	Remarks.
	BEHAR.		Inches.	Inches	Inches.	1873.	
Patna.	Patna	Patna	Not rec.	Nil	1·30	31st May	Not received, 18th to 24th May.
		Behar	Nil	ditto	1·17	ditto.	
		Barh	Not rec.	ditto	1·45	ditto	ditto. ditto.
		Dinapore... Jail	Nil	ditto	1·26	ditto.	
		Cantonment	Not rec.	ditto	0·55	ditto	ditto. ditto,
	Gya	Gya	Nil	ditto	1·41	ditto.	
		Nowadah	ditto	ditto	1·34	ditto.	
		Aurungabad	ditto	ditto	2·26	ditto.	
		Jehanabad	ditto	ditto	1·36	ditto.	
	Shahabad	Arrah	ditto	ditto	2·14	ditto.	
		Sasseram	ditto	ditto	1·31	ditto.	
		Buxar	ditto	ditto	1·38	ditto.	
		Bhuboosh	ditto	ditto	5·86	ditto.	
	Tirhoot	Mozufferpore	ditto	ditto	5·00	ditto.	
		Durbhangah	ditto	ditto	2·51	ditto.	
		Hajipore	ditto	ditto	1·93	ditto.	
		Mudhubani	ditto	ditto	4·11	ditto.	
		Seetamaree	ditto	0·20	3·35	ditto.	
		Tajpore	ditto	Nil	3·22	ditto.	
	Sarun	Chuprah	ditto	ditto	2·99	ditto.	
		Sewan	ditto	0·79	2·70	ditto.	
	Chumparun	Moteehari	ditto	0·30	5·60	ditto.	
		Bettiah	Not rec.	Not rec.	5·25	3rd May.	
Bhaugulpore.	Monghyr	Monghyr	Nil	Nil	3·27	31st May.	
		Begooserai	ditto	ditto	2·13	ditto.	
		Jamooie	ditto	ditto	1·93	ditto.	
	Bhaugulpore	Bhaugulpore	ditto	0·01	1·83	ditto.	
		Soopool	ditto	0·09	2·90	ditto.	
		Mudheypoorah	ditto	Nil	2·25	ditto.	
		Banka	ditto	0·80	3·03	ditto.	
		Sanborsa	ditto	1·50	3·06	ditto.	
	Purneah	Purneah	ditto	Nil	5·19	ditto.	
		Kishengunge	ditto	ditto	3·81	ditto.	
		Arrareah	ditto	0·05	4·67	ditto.	
	Sonthal Pergunnahs	Deoghur	ditto	Nil	3·70	ditto.	
		Jamtara	ditto	ditto	0·94	ditto.	
		Rajmehal	ditto	ditto	1·95	ditto.	
		Pakour	ditto	ditto	0·40	ditto	
		Nya-Doomka	ditto	ditto	4·08	ditto.	
		Godda	ditto	0·60	3·03	ditto.	
	ORISSA.						
Orissa.	Cuttack	Cuttack Telegraph Office	ditto	0·50	4·70	ditto.	
		Hospital	ditto	0·80	5·49	ditto.	
		Jajipore	0·10	2·70	8·55	ditto.	
		Kendrapara	Nil	3·90	9·10	ditto.	
		Jugutsingpore	ditto	1·37	5·91	ditto.	
		False Point	ditto	3·50	5·75	ditto.	
	Pooree	Pooree	ditto	4·14	6·15	ditto	
		Khurdah	ditto	2·02	3·39	ditto	
	Balasore	Balasore	ditto	1·83	7·27	ditto.	
		Bhuddruck	ditto	2·40	5·57	ditto.	
		Jellasore	ditto	Nil	2·00	ditto	From 1st April.
		Sorah	ditto	0·32	0·47	ditto	ditto.
		Chandbally	ditto	2·20	3·57	ditto	ditto.
	Cuttack Tributary Mehals	Sambalpore	Not rec.	Not rec.	1·69	10th May.	
	CHOTA NAGPORE.						
	SOUTH-WESTERN FRONTIER AGENCY.						
	Hazareebaugh	Hazareebaugh Jail	Nil	0·01	1·27	31st May,	
		Dispensary	ditto	Nil	1·54	ditto.	
		Pachumba	ditto	ditto	2·77	ditto.	
	Lohardaggah	Ranchee	ditto	0·50	3·34	ditto.	
		Palamow	ditto	0·42	2·14	ditto.	
	Singbhoom	Chyebassa	0·60	0·01	6·82	ditto.	
	Maunbhoom	Purulia	Nil	Nil	5·31	ditto.	
		Gobindpore	ditto	Not rec.	3·80	24th May.	
	ASSAM & ADJACENT HILLS.						
	Goalparah	Goalparah	0·31	Nil	20·56	31st May.	
		Dhoobree	0·15	0·15	15·85	ditto.	
	Kamroop	Gowhatty	1·20	0·07	17·48	ditto.	
		Burpettah	0·20	Nil	19·69	ditto.	
	Durrung	Tezpore	2·01	Not rec.	14·98	24th May.	
		Mungledye	0·91	ditto	19·35	ditto.	
	Nowgong	Nowgong	1·08	2·19	13·55	31st May	
	Seebsaugor	Seebsaugor	0·91	Not rec.	27·80	24th May.	
		Golaghat	0·86	ditto	17·80	ditto.	
		Jorehaut	0·30	ditto	16·95	ditto.	
		Nazeerah	0.68	ditto	25·10	ditto.	
	Luckimpore	Debrooghur	0·59	ditto	24·01	ditto.	
		North Luckimpore	1·19	ditto	14·66	ditto	Not received, 27th April to 10th May.
		Suddya	0·63	ditto	23·13	ditto.	
	Naga Hills	Samoogoodting	0·20	ditto	11·18	ditto.	
	Khasi and Jynteah Hills.	Shillong	0·55	2·62	14·09	31st May.	
		Jaowai	0·10	0·73	13·24	ditto.	
		Cherrapoonjee	1·07	1·39	47·10	ditto.	
	Garo Hills	Tura	Nil	1·34	19·30	ditto.	
		Benares	ditto	Nil	0·63	ditto.	
		Akyab	ditto	10·60	14·70	ditto.	

CALCUTTA,
The 7th June 1873.

H. F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

Meteorological Telegraphic Report for the period 1st to 7th June 1873.

Stations.	Date.	Hour.	Barometer reduced to 32°.	Barometer reduced to sea-level.	Thermometer.		Humidity Sat. =100.	Wind.		Rain.	Clouds.	Weather initials.
					Dry.	Wet.		Direction.	* Velocity.			
Calcutta.	June 1st	10	29·440	29·458	93·2	82·0	60	W S W	...	0·05	C, CS	
		16	29·324	29·342	94·0	85·0	67	N N E	...	0·36	K	
	2nd	10	29·447	29·465	93·5	84·8	67	S	...	...	S, CK	
		16	29·327	29·345	102.6	82·9	40	S S E	...	...	C	
	3rd	10	29·548	29·566	87·5	81·0	74	S S W	...	0·07	S, K	
		16	29·459	29·477	95·2	86·4	68	S	...	...	C	
	4th	10	29·623	29·641	90·5	84·6	76	S S W	...	...	......	scuds.
		16	29·533	29·551	93·7	84·2	65	S by W	...	...	C	
	5th	10	29·655	29·673	91·3	83·5	70	S by W	...	...	CK	scuds.
		16	29·559	29·577	94·7	84·5	64	S	...	...	K	
	6th	10	29·665	29·683	93·0	82·8	63	S S W	...	...	K, C	
		16	29·536	29·554	95·0	83·5	59	S	...	...	K	
	7th	10	29·630	29·648	91·0	83·0	70	S W	...	...	K, C	
		16	29·514	29·532	94·0	83·0	61	S by W	...	...	K	
Saugor Island.	June 1st	10	29·464	29·470	93	86	74	W S W	22·3	...	N	b, m, u, scuds.
		16	29·308	29·314	90	82	69	S W	12·8	0·10	N	o, u, scuds.
	2nd	10	29·465	29·471	97	86	62	W N W	7·6	...	N	m
		16	29·364	29·370	94	86	70	S S W	10·8	...	CS	m
	3rd	10	29·593	29·599	92	85	73	S S W	17·7	...	N	b, scuds.
		16	29·499	29·505	90	85	80	S S W	19·5	...	N	o, m, scuds
	4th	10	29·645	29·651	92	86	77	S S E	14·5	...	N	o, m
		16	29·586	29·592	91	85	77	S	20·0	...	N	o, m, scuds
	5th	10	29·693	29·699	91	84	73	S	14·2	...	N	m, scuds.
		16	29·607	29·613	92	84	70	S	15·1	...	N	b, m
	6th	10	29·678	29·684	92	84	70	S	16·7	...	N	b, m
		16	29·556	29·562	90	83	73	S	16·9	...	N	b, scuds.
	7th	10	29·636	29·642	93	84	67	S	17·9	...	N	b, m, scuds.
		16	29·555	29·561	89	82	73	S	12·2	...	CS	b
Chittagong.	June 1st	10	29·439	29·532	79	78	95	W S W	4·9	0·70	N	d, o, g
		16	29·347	29·440	82	79	87	S	5·9	...	K, KS	u, g
	2nd	10	29·482	29·574	85	81	83	S E	5·4	...	KS	u, g
		16	29·396	29·488	86	81	79	S W	13·8	...	CK, K, KS	
	3rd	10	29·611	29·703	87	80	72	S E	7·8	...	CK, K	b
		16	29·526	29·618	87	79	68	S W	17·9	...	CK, K	b, g
	4th	10	29·668	29·761	81	76	78	E S E	7·0	...	K, KS	u
		16	29·553	29·644	90	81	66	S	7·4	...	C, CK	b
	5th	10	29·705	29·797	86	81	79	S S E	6·3	...	CK, K, KS	b
		16	29·595	29·687	87	80	72	S S E	15·0	...	CK, C	b
	6th	10	29·695	29·786	89	81	69	S	6·2	...	CK, K, KS,	b
		16	29·573	29·664	88	80	69	S	12·4	...	C, CS	b
	7th	10	29·625	29·716	90	80	63	S	6·1	...	K, CK, C	b
		16	29·511	29·602	89	81	69	W S W	13·9	...	......	b
Madras.	May 31st	10	29·636	29·666	94	77	43	S	10	...	......	c
		16	29·514	29·544	89	78	59	S S E	15	...	......	c
	June 1st	10	29·669	29.699	95	76	38	W by S	17	...	......	c
		16	29·533	29.563	103	78	29	W S W	10	...	......	cloudy.
	2nd	10	29·697	29·727	96	76	36	W	20	...	......	b, c
		16	29·553	29·583	92	78	51	S W by S	14	...	......	c
	3rd	10	29·716	29·746	95	75	36	W	15	...	......	m
		16	29·583	29·613	90	79	59	S by E	13	...	......	cloudy.
	4th	10	29·728	29·758	94	85	67	W by S	13	...	......	cloudy.
		16	29·610	29·640	91	79	56	W S W	11	...	......	cloudy.
	5th	10	29·764	29·794	93	75	40	W by N	13	...	......	m
		16	29·652	29·682	97	76	35	N N W	8	...	......	cloudy.
	6th	10	29·707	29·737	96	74	31	W by N	11	...	......	c
		16	29·607	29·637	91	76	47	E S E	10	...	......	m
Cuttack.	June 1st	10	29·401	29·482	93	81	57	S W	5·3	...	C	b
		16	29·261	29·349	105	80	30	W N W	6·7	...	......	b
	2nd	10	29·439	29·520	93	79	51	W	6·7	...	......	u
		16	29·303	29·384	104	79	30	N N W	5·9	...	C, S	b
	3rd	10	29·519	29·600	95	81	52	S S W	4·7	...	CK, C.	
		16	29·399	29·480	102	82	40	S S E	2·3	...	C, S	b
	4th	10	29·538	29·619	95	79	47	S W	4·5	...	C	b
		16	29·448	29·529	98	83	51	S W	4·2	...	C, K, N.	
	5th	10	29·593	29·674	93	82	60	S	5·9	...	CK, C.	
		16	29·468	29·549	101	83	44	S	3·4	...	C, KC, K.	
	6th	10	29·580	29·661	94	83	61	S	6·3	...	K, C.	
		16	29·451	29·532	97	82	50	S	5·7	...	K	b
	7th	10	29·550	29·631	93	79	51	S S W	4·7	...	C, K.	
		16	29·424	29·505	96	80	47	S S E	7·8	...	C, K, CS.	
Akyab.	June 1st	10	29·534	29·556	78	77	95	W N W	·4†	6·50	......	r, g, t, l
		16	29·459	29·481	76	76	100	N N E	4·1	4·80	......	r, t, l
	2nd	10	29·590	29·611	86	81	79	S	2·7	0·80	......	b
		16	29·536	29·557	88	79	83	S S E	6·8	...	......	g
	3rd	10	29·730	29·752	82	79	87	E	1·1	...	......	o, g
		16	29·623	29·644	85	81	83	S S E	0·5	...	......	b, g
	4th	10	29·782	29·804	77	77	100	N N W	0·1	...	......	g
		16	29·646	29·666	83	79	83	S S W	11·0	...	......	g
	5th	10	29·779	29·801	81	78	86	S E	0·3	1·40	......	b, g
		16	29·677	29·698	87	81	76	S W	1·0	...	......	b
	6th	10	29·737	29·758	87	81	76	S	0·4	...	......	b
		16	29·667	29·688	85	81	83	S	4·1	...	......	b, g
	7th	10	29·699	29·720	86	82	83	E	0·3	...	......	b, g
		16	29·597	29·618	86	81	79	S	0·8	...	......	b

* Velocity of wind in miles per hour.

† Force of the wind.

CALCUTTA,
The 7th June 1873.

H. F. BLANFORD,
Meteorological Reporter to the Government of Bengal.

Abstract of Observations as received in the Meteorological Reporter's Office, Calcutta,

DURING THE MONTH OF MARCH 1873.

N.B.—The barometric data are reduced for temperatures, and not for height, above sea-level.

STATIONS.	Height above sea-level.	BAROMETER.						TEMPERATURE OF AIR.																			HUMIDITY.					RAINFALL.	
			Mean of					Radiation.										Mean of				Highest Max.			Lowest Min.			Mean of					
								Solar.			Gross Nocturnal.																						
									Max.			Min.																					
		Mean.	4 hours.	10 hours.	16 hours.	22 hours.	Range.	Mean.	Day.	⊖	Mean.	Day.	⊖	Mean of max.	Mean daily range.	Mean of min.	Mean.	4 hours.	10 hours.	16 hours.	22 hours.	Day.	⊖	Monthly range.	Day.	⊖	Mean.	4 hours.	10 hours.	16 hours.	22 hours.	In inches.	No. of days.
Port Blair ...	100	Not received.																															
Madras ...	27	29·915	...	29·980	29·850	...	·130	...	...	...	...	...	...	...	...	...	82·1	...	84·8	84·3	...	...	...	...	...	...	...	...	57	59	...	Nil	
Vizagapatam ...	31	29·885	29·856	29·948	29·824	29·913	·124	108·8	10th	114·0	...	..	...	85·4	5·4	80·0	82·9	80·7	84·1	84·6	82·4	25th	90·8	13·8	17th	77·0	66	71	61	63	69	Nil	
Akyab ...	21	29·886	29·858	29·954	29·827	29·904	·127	145·9	29th	150·0	58·9	11th	48·1	87·5	21·8	65·7	77·9	69·2	84·0	83·9	74·4	31st	91·8	34·1	6th	57·7	74	93	58	62	86	Nil	
False Point ...	18·7	29·880	29·874	29·950	29·832	29·901	·118	...	...	...	...	...	...	...	...	...	80·4	76·3	82·1	83·1	79·9	...	...	...	...	...	84	90	80	80	86	0·05	1
Cuttack ...	80	29·805	29·782	29·871	29·730	29·835	·141	149·0	25th	156·9	66·3	1st	59·3	95·9	24·5	71·4	82·2	73·4	84·8	92·7	77·9	22nd	105·2	38·8	15th	66·4	65	88	58	34	80	2·49	4
Saugor Island ...	6	29·882	...	29·949	29·825	...	·124	142·6	18th	147·2	70·8	9th	58·0	84·3	11·6	72·7	80·9	...	82·3	83·3	...	18th	88·4	26·6	9th	61·8	73	...	68	66	...	1·83	2
Chittagong ...	90	29·834	29·815	29·899	29·774	29·850	·125	142·4	16th	150·4	64·2	2nd	55·3	88·5	22·3	66·2	77·8	69·3	81·3	85·0	75·8	31st	94·3	37·1	10th	57·2	68	86	60	52	75	Nil	...
Calcutta ...	18·11	29·861	29·833	29·935	29·801	29·873	·134	140·8	22nd	145·0	...	...	...	90·0	18·1	71·9	80·3	73·2	81·4	89·5	77·0	23rd	99·0	35·2	10th	63·8	67	87	63	40	79	1·18	3
Jessore ...	20	29·852	29·835	29·921	29·778	29·872	·143	144·9	24th	151·3	60·9	1st	42·8	92·9	25·5	67·4	79·3	68·8	82·8	90·9	74·5	23rd	102·0	49·8	1st	52·2	64	89	58	33	76	0·65	3
Dacca ...	35	29·845	29·831	29·915	29·778	29·857	·137	144·8	14th	150·0	63·4	1st	48·2	89·7	21·6	68·1	78·4	70·0	82·6	86·9	74·2	24th	97·2	40·3	10th	56·9	67	88	59	46	76	1·88	5
Silchar ...	88·91	29·891	29·869	29·967	29·831	29·897	·136	127·5	29th	137·0	59·8	10-11th	50·0	83·1	20·2	62·9	72·4	64·9	73·4	81·4	69·8	30th	90·0	36·0	10th	54·0	76	91	75	56	82	7·48	13
Hazareebaugh ...	2014	27·864	...	27·912	27·810	27·875	·102	144·8	5th	155·0	52·5	2nd	40·0	86·2	24·1	62·1	79·5	...	78·8	83·6	70·0	29-31st	96·0	45·0	9th	51·0	32	...	32	22	41	0·94	6
Bernampore ...	64	29·799	29·784	29·870	29·727	29·816	·143	131·6	5th	148·5	59·6	2nd	46·5	91·4	26·2	65·2	78·2	67·1	82·3	89·5	74·0	23rd	100·0	45·5	2nd	54·5	61	85	56	34	69	1·50	4
Gya ...	347	29·486	...	29·562	29·411	29·507	·151	121·5	31st	133·0	58·1	2nd	49·0	92·7	27·2	65·5	79·7	...	84·4	90·2	75·7	31st	102·7	46·7	10th	56·0	...	...	31	21	41	0·04	2
Patna ...	179	Not received.																															
Monghyr ...	160·4	29·698	29·677	29·770	29·629	29·716	·141	143·6	30th	150·0	61·6	2nd	50·2	88·3	22·2	66·1	77·1	67·6	79·6	87·4	73·9	30th	97·9	40·3	9th	57·6	47	61	44	31	52	1·06	4
Darjeeling ...	69·45	23·363	23·344	23·390	23·341	23·378	·049	116·0	31st	123·0	37·9	9th	26·0	58·8	16·6	42·2	49·5	43·1	54·6	53·9	43·4	30th	65·0	32·8	9th	32·2	67	75	53	63	79	2·79	8
Goalparah ...	386	29·523	29·525	29·583	29·447	29·539	·136	...	...	...	58·3	2nd	49·4	83·9	24·1	59·8	72·8	64·2	76·4	79·3	71·5	30th	89·4	37·2	9th	52·2	64	82	58	48	66	2·34	3
Benares ...	262·74	29·606	29·599	29·657	29·549	29·620	·108	151·2	27-28th	159·0	56·3	2nd	41·0	94·7	34·9	59·8	77·7	63·1	84·7	92·9	70·2	29-31st	103·0	57·0	2nd	46·0	46	66	35	26	56	0·22	3
Roorkee ...	879·7	28·943	28·920	29·013	28·891	28·948	·122	145·4	22nd	156·7	50·8	1st	37·5	88·8	32·0	56·8	73·3	59·9	78·0	86·3	69·0	30-31st	99·2	56·5	1st	42·7	43	66	34	20	49	0·31	2

CALCUTTA—MARCH 1873.

Mean barometric pressures of 16 years ...	29·859	Mean temperatures of 16 years	80·5	Mean humidity of 16 years	67	Mean rainfall of 16 years	1·13
Ditto ditto of 1873 ...	29·861	Ditto ditto of 1873	80·3	Ditto ditto of 1873	67	Actual fall in 1873	1·18
Excess in 1873	·002	Defect in 1873	0·2	Equal in 1873	0	Excess in 1873	·05

CALCUTTA,
The 7th June 1873.

HENRY F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

Mean pressures and temperatures of the preceding table reduced to sea-level, with Anemometric results and observations of sky serenity.

Stations.	Mean barometric pressures reduced to sea-level.	Mean temperature reduced to sea-level.	Wind.											Mean serenity.
			North.	North-East.	East.	South-East.	South.	South-West.	West.	North-West.	Calm.	Percentage and Resultant.	Mean velocity.	
Port Blair.	Not recvd.													
Madras	29·943	82·1	...	...	16	37	9	...	...	...	...	88 S, 50° E	208·1	...
Vizagapatam	29·917	83·0	..	2	5	26	23	11	51	6	...	47 S, 41 W	90·7	8·68
Akyab	29·908	77·9	6	2	8	3	13	17	43	22	...	53 S, 86 W	47·5	8·95
False Point	29·908	80·4	2	7	5	8	16	61	8	7	10	54 S, 37 W	...	...
Cuttack	29·887	82·4	5	8	1	11	34	36	13	6	8	40 S, 28 W	87·5	8·57
Saugor Island	29·888	80·9	4	2	1	2	16	24	8	5	...	57 S, 44 W	259·4	5·73
Chittagong	29·928	78·0	19	8	5	16	8	25	28	15	...	28 S, 87 W	177·9	8·11
Calcutta	29·880	80·3	6	3	8	4	54	19	15	15	...	47 S, 27 W	146·1	...
Jessore	29·873	79·3	...	1	1	7	19	37	20	23	16	52 S, 59 W	85·1	7·95
Dacca	29·881	78·4	11	9	5	12	33	31	10	9	1	36 S, 25 W	115·4	7·30
Silchar	29·984	72·6	5	18	43	10	3	11	10	5	19	34 N, 85 E	86·6	6·16
Hazareebaugh	29·857	83·9	4	...	1	8	9	11	21	36	...	50 N, 79 W	160·8	7·76
Berhampore	29·865	78·3	8	3	8	12	8	27	10	10	30	14 S, 43 W	62·9	7·80
Gya	29·837	80·5	1	14	13	5	4	12	14	22	8	17 N, 48 W	77·1	7·55
Patna	Not recvd.													
Monghyr	29·862	77·4	9	14	32	4	3	18	24	4	16	5 N, 58 E	78·5	7·52
Darjeeling	......	......	...	1	22	9	2	13	50	23	4	37 S, 89 W	...	4·77
Gowalparah	29·919	73·7	12	6	46	25	11	10	1	4	...	52 S, 74 E	151·2	5·23
Benares	29·874	78·3	1	1	6	7	9	5	56	9	29	45 S, 80 W	86·3	8·45
Roorkee	29·844	75·2	2	3	2	22	2	5	11	14	62	7 S, 34 W	84·3	8·48

NOTE.

Barometric Pressure.—The pressures in column 2 of the above table for all stations below 500 feet are reduced from those given in column 3 of the table on the previous page by adding the weight of a column of air of the corresponding temperatures given in column 17. For stations of above 500 feet elevation the reduction is made by Dippe's tables as given in Guyot's "Meteorological and Physical Tables." The temperatures at the sea-level are taken from column 3 of the above table.

Temperature.—The temperatures in column 3 are reduced from those in column 17 on the preceding page by adding 1° Fahr. for every 350 feet.

Wind Resultant.—The resultant wind direction and the comparative predominance are calculated from the whole number of wind observations recorded during the month. The relative predominance in the direction of the resultant is given as a percentage of the whole number of observations. The direction is computed in the usual way by Lambert's formula.

Serenity.—This column gives the average proportion of unclouded sky; a cloudless sky being indicated by 10, and one completely overcast by 0.

The above being all comparable, afford the data for constructing a meteorological chart for the month, which shall show the isobaric and isothermal lines and the resultant wind directions, which last may be represented by arrows of varying length, proportioned to the prevalence of the wind. To these may be added the rainfall from the previous tables.

CALCUTTA,
The 7th June 1873.

HENRY F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 1st to 7th June 1873.

Month.	Date.	Mean reduced barometer.	THERMOMETER. Highest reading.	THERMOMETER. Lowest reading.	THERMOMETER. Max. solar radiation.	Mean dry bulb.	Mean wet bulb.	Computed mean dew-point.	Mean degree of humidity.	WIND. Prevailing direction.	WIND. Max. pressure.	WIND. Daily velocity.	Rain.	Moon's phases.	GENERAL REMARKS.
		Inches.	°	°	°	°	°	°			lb	Miles	In.		
June ...	1st	29·407	99·0	82·5	145·0	87·6	81·3	77·5	0·73	S E	4·0	137·4	0·36	...	Stratoni and cirri. Thunder between 1¾ and 2½ and at 5 P.M. Lightning at 2 and 4 A.M. Rain from 1¾ to 2½ P.M.
	2nd	·412	103·0	84·0	144·0	91·4	83·3	78·4	·67	S E, W S W & S	...	172·8	...	...	Cirri and stratoni.
	3rd	·506	95·2	86·0	143·0	88·8	84·1	81·3	·79	S S W & S	1·0	279·1	0·07	☽	Stratoni, cumuli, and overcast. Thunder at 8½ A.M. Lightning on N. W. at 8 and 9 P.M. Slight rain from 6¼ to 9½, at 11¾ A.M., and 7¼ P.M.
	4th	·577	94·2	83·0	137·0	88·4	83·4	80·4	·78	W S W	2·0	322·0	...	...	Overcast, cumuli, and cirri. Brisk wind from 10½ A.M. to 6 P.M. Lightning at 11 P.M. Drizzled at 11¼ P.M.
	5th	·619	96·4	84·5	146·0	89·3	83·5	80·0	·75	W by S & S	...	280·1	...	...	Overcast, cirro-cumuli, and cirri.
	6th	·617	96·5	82·0	147·0	89·1	82·4	78·4	·71	S by W & S	0·2	288·6	...	...	Cirri and cumuli. Lightning between 7 and 8 and at 10 P.M. Drizzled between 8 and 9 P.M.
	7th	·583	95·0	82·6	145·0	88·1	81·6	77·7	·72	S S W & S	0·5	282·0	...	...	Overcast and cumuli.

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants. The figures in Column 10 represent the humidity of the air, the complete saturation of which being taken at unity. The receiver of the lower rain gauge is 1½ feet, and that of the anemometer 70 feet 10 inches above the level of the ground. The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

	°
The extreme variation of temperature during the past seven days ...	21·0
The max. temperature during the past seven days ...	103·0
The max. temperature during the corresponding period of the past year ...	98·2
The mean humidity during the past seven days ...	0·74
The mean humidity during the corresponding period of the past year ...	0·70
	Inches.
The total fall of rain from 1st to 7th ... by lower rain gauge ...	0·43
The total fall of rain from 1st to 7th ... by anemometer gauge ...	0·26
Ditto ditto ditto, average of nineteen previous years ...	2·52
Ditto ditto between the 1st January and the 7th June ...	7·23
Ditto ditto ditto, average of nineteen previous years ...	13·52

GOPEENAUTH SEN,
In charge of the Observatory.

The 9th June 1873.

Weekly Return of Traffic Receipts on Indian Railways.

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for Week ended 24th May 1873, *on* 156½ *miles open.*

	COACHING TRAFFIC.			MERCHANDISE AND MINERAL TRAFFIC.			Total receipts.
	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.		
		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	38,444½	28,469 3 9	2,609 13 7	114,135 26	25,566 1 7	2,343 11 0	4,953 4 7
Or per mile of railway	246	181 14 7	16 13 6	729 0	163 5 9	14 19 6	31 13 0
For previous 20 weeks of half-year	670,639	5,06,837 5 2	46,460 5 4	2,587,311 6	9,08,046 5 7	55,716 10 1	102,176 15 5
Total for 21 weeks	709,083½	5,35,306 8 11	49,069 18 11	2,701,446 32	9,33,612 7 2	58,060 1 1	10,7130 0 0
COMPARISON.							
Total for corresponding week of previous year...	35,837½	19,929 11 1	1,826 17 9	107,964 31	24,694 7 6	2,263 13 3	4,090 11 0
Per mile of railway corresponding week of previous year	229	127 5 6	11 13 6	690 0	157 12 8	14 9 3	26 2 9
Total to corresponding date of previous year	678,580	4,34,056 4 0	39,788 9 9	2,880,350 30	5,69,011 14 3	52,159 8 7	91,947 18 4

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for Week ended 31*st May* 1873, *on* 28 *miles open.*

		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	5,185½	905 0 0	90 10 0	25,233 0	832 0 0	83 4 0	173 14 0
Or per mile of railway	185	32 0 0	3 4 0	901 0	30 0 0	3 0 0	6 4 0
For previous 21 weeks of half-year...	148,607	23,854 0 0	2,385 8 0	403,982 0	12,956 0 0	1,295 12 0	3,681 0 0
Total for 22 weeks ...	153,792½	24,759 0 0	2,475 18 0	429,215 0	13,788 0 0	1,378 16 0	3,854 14 0
COMPARISON.							
Total for corresponding week of previous year	5,150½	848 12 6	84 17 7	19,408 30	833 11 9	83 7 5	168 5 0
Per mile of railway corresponding week of previous year	184	3 5 0	3 0 8	693 7	29 12 5	2 19 6	6 0 2
Total to corresponding date of previous year	158,530½	23,830 1 3	2,383 0 2	375,637 2	11,721 10 6	1,172 3 4	3,555 3 6

EAST INDIAN RAILWAY—MAIN LINE.

Approximate Return of Traffic for Week ended 31*st May* 1873, *on* 1,280 *miles open.*

		Rs. A. P.	£. s. d.	Mds.* Srs.	* Rs. A. P.	£. s. d.	£ s. d.
Total traffic for the week	111,161	1,39,441 5 1	12,782 2 5	879,709 20	4,01,641 11 3	36,817 3 2	49,599 5 7
Or per mile of Railway	......	108 15 0	9 19 9	......	313 12 6	28 15 3	38 15 0
For previous 21 weeks of half-year...	2,399,616	34,43,906 4 6	315,691 8 2	16,021,522 10	80,21,520 14 6	735,306 1 8	1,050,997 9 10
Total for 22 weeks ...	2,510,777	35,83,347 9 7	328,473 10 7	16,901,231 30	84,23,162 9 9	772,123 4 10	1,100,596 15 5
COMPARISON.							
Total for corresponding week of previous year	116,348	1,47,995 12 3	13,566 5 7	664,337 20	3,07,977 4 8	28,231 5 1	41,797 10 8
Per mile of railway corresponding week of previous year	......	115 9 11	10 12 0	......	240 9 9	22 1 1	32 13 1
Total to corresponding date of previous year	2,447,581	36,44,575 1 10	334,086 1 0	15,234,709 10	84,43,437 15 6	773,981 16 4	1,108,067 17 4

* Maunds 47,020—20 and Rs. 27,855-4-3, added on account of difference between approximate and audited returns of week ended May 1873.

EAST INDIAN RAILWAY—JUBBULPORE LINE.

Approximate Return of Traffic for Week ended 31*st May* 1873, *on* 223½ *miles open.*

		Rs. A. P.	£ s. d.	* Mds. Srs.	* Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	5,182	10,338 15 10	947 14 10	114,115 30	30,940 11 6	2,833 17 0	3,781 11 10
Or per mile of railway	......	46 4 2	4 4 10	......	138 5 1	12 13 7	16 18 5
For previous 21 weeks of half-year...	102,203	3,50,453 5 1	32,124 17 9	1,551,337 20	4,47,982 14 0	41,065 1 11	73,189 19 8
Total for 22 weeks ...	107,385	3,60,792 4 11	33,072 12 7	1,665,453 10	4,78,897 9 6	43,898 18 11	76,971 11 6
COMPARISON.							
Total for corresponding week of previous year	6,123	15,281 8 2	1,400 16 1	80,931 30	22,344 14 6	2,048 5 8	3,449 1 9
Per mile of railway corresponding week of previous year	......	68 6 0	6 5 4	......	99 15 7	9 3 4	15 8 8
Total to corresponding date of previous year	119,412	3,70,103 6 2	33,926 2 10	1,594,610 20	4,55,545 14 2	41,758 7 6	75,684 10 4

* Maunds 27,179—20 and Rs. 7,944-5-3 added on account of difference between approximate and audited returns of week ended 3rd May 1873.

NULHATTEE STATE RAILWAY.

Approximate Return of Traffic for Week ended 31*st May* 1873, *on* 27½ *miles open.*

	COACHING TRAFFIC.			MERCHANDISE AND MINERAL TRAFFIC.			Total receipts.
	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.		
		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	1,425½	969 0 0	96 18 0	4,876 0	415 0 0	41 10 0	138 8 0
Or per mile of railway	52	35 8 0	3 11 0	179 0	15 0 0	1 10 0	5 1 0
For previous 21 weeks of half-year	34,994½	25,263 0 0	2,526 6 0	143,436 0	11,174 0 0	1,117 8 0	3,643 14 0
Total for 22 weeks ...	36,420	26,232 0 0	2,623 4 0	148,312 0	11,589 0 0	1,158 18 0	3,782 2 0
COMPARISON.							
Total for corresponding week of previous year	......	......	......	......	......	......	......
Per mile of railway corresponding week of previous year	......	......	......	......	......	......	......
Total to corresponding date of previous year	......	......	......	......	......	......	......

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for Week ended 31*st May* 1873, *on* 156½ *miles open.*

		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s d.
Total traffic for the week	42,097½	23,784 0 3	2,180 4 0	132,763 6	28,264 5 1	2,590 17 11	4,771 1 11
Or per mile of railway	269	151 15 7	13 18 8	848 0	180 9 8	16 11 1	30 9 9
For previous 21 weeks of half-year	709,083½	5,35,306 8 11	49,069 18 11	27,01,446 32	9,33,612 7 2	58,060 1 1	1,07,130 0 0
Total for 22 weeks	751,181	5,59,090 9 2	51,253 2 11	28,34,209 38	9,61,876 12 3	60,650 19 0	1,11,901 1 11
COMPARISON.							
Total for corresponding week of previous year	4,2153½	20,390 3 3	1,869 2 0	1,96,921 29	24,752 0 7	2,268 18 9	4,138 0 9
Per mile of railway corresponding week of previous year	266	130 4 8	11 18 10	1,258 0	158 2 7	14 10 0	26 8 10
Total to corresponding date of previous year	720,733½	4,54,446 7 3	41,657 11 9	3,07,272 19	5,93,763 14 10	54,428 7 4	96,085 19 1

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SUPPLEMENT TO
The Calcutta Gazette.

WEDNESDAY, JUNE 18, 1873.

OFFICIAL PAPERS.

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COTTON CULTIVATION.

No. 1124, dated Calcutta, the 14th May 1873.

From—W. S. HALSEY, ESQ., C.S., Officiating Commissioner of Cotton and Commerce with the Government of India,
To—The Offg. Asst. Secretary to the Govt. of Bengal in the Agricultural Dept.

IN reply to your letter No. 721, dated 16th April 1873, I have the honor to inform you I have had the enclosed memorandum on the culture of cotton drawn up by Mr. Parsons, the most experienced officer in this department, and trust it will meet with His Honor's approval.

The American cotton seed is daily expected to arrive.

Memorandum on the Cultivation of Cotton.

SELECT the best possible piece of land—if new and naturally drained, so much the better—that is, if means exist of thoroughly working it previous to sowing, otherwise land which has been under cultivation for two or three years will probably yield the best result with a little manure.

Avoid extremes, such as heavy clays and sand or very low-lying fields, and also districts where the temperature falls below 40 degrees.

Prepare the land by ploughing or digging as deeply as possible (unless the subsoil is bad) a few months before the sowing season.

This will vary in different districts according to the climate and rainfall. It would be advisable to follow the custom of the natives; but, as a general rule, the seed should be sown so that the plants do not begin flowering until nearly the close of the rains, otherwise they are very liable to attacks from the boll-worm.

The seed should be sown in rows or lines. This is more expensive than sowing broadcast, but it is more than compensated for by the increased facilities for weeding, cultivating, and gathering the crop.

The distance between the plants and rows can only be regulated by experience, such as the kind of cotton grown and the known productive qualities of the land.

New Orleans and Sea Island cotton on very good land should be sown three feet apart between the lines, and two or even three feet distant in the row. Smaller and indigenous varieties should be treated according to their known habits. One-and-a-half to two-and-a-half feet apart between the rows, and six inches to a foot from plant to plant, have been found to answer very well with indigenous varieties in most parts of the country.

The above refers to flat cultivation without irrigation, which is the least expensive.

The Egyptian system, as introduced by Mr. Login, consists in sowing the seed on ridges three feet apart, eight inches high, and two feet from plant to plant, and irrigating between the rows; it is also recommended to sow the seed about three weeks before the setting in of the monsoon.

The real merit of the system consists in the superior cultivation which the land receives necessary to carry it out.

Instead of the three or four inches of tillage which the land ordinarily receives, the plants have double that depth to grow in.

It can only be carried out, however, effectually and economically in districts where there is an abundant and unfailing supply of water thoroughly under command, as well as on the very best of lands, either naturally so, or which have been greatly improved by deep tillage and high manuring extending over several years.

Whichever plan is adopted, the after-treatment is much the same.

Three or four seeds should be sown together, and if they all germinate, the surplus plants should be pulled up when two or three inches high, leaving the most promising plants single at the required distance from each other.

Weeding should be carefully attended to whatever the state of the weather, the surface of the soil being kept constantly loosened and pulverized; and if ridges are adopted, these must be kept constantly banked up, as they are always reduced by heavy rains.

The plants, according to the variety, should be tapped, the smaller at three, and the larger kinds on reaching four to five feet in height, which will induce the production of lateral branches and more cotton.

With regard to the selection of seed, choose in the first instance those plants which appear to be adopting themselves to their changed conditions (in the case of foreign varieties) and are yielding fairly both in outturn and quality.

Then from these plants select a few of the very best bolls, and keep the seed for future experiments.

Selection should not be carried on promiscuously from all the plants, as it might be desirable to procure either an earlier or later variety, and consequently the plants which would effect this should be chosen as the seed-bearers.

Again, some plants will be observed to produce much more abundantly than others; these also should be selected, and the comparatively barren ones rejected.

Should very dry weather set in when the rains cease, irrigation will be found beneficial, and will cause the plants to continue bearing some time longer than they otherwise would.

The water should be given late in the evening or during the night, and not during bright sunshine. If ridges are adopted it will be the more necessary; these need not be covered with water, as the upper part will become sufficiently moist by absorption. Should the land be very poor, apply about 50 tons of manure per acre.

No. 788 I, dated Fort William, the 27th May 1873.

From—LIEUT.-COLONEL F. T. HAIG, R.E., Offg. Joint-Secretary to the Government of Bengal in the Public Works Department, Irrigation Branch,
To—The Secretary to the Government of Bengal, Revenue (Agricultural) Dept.

I AM directed to forward herewith copies of the correspondence marginally noted, and to request that you will send a copy to the Agricultural Department of the Government of India, and call the particular attention of that Department to it, as showing a much more careful cultivation of cotton in Orissa than is known elsewhere on this side of India. The cotton is grown, as in the more southern parts of India, at an almost rainless season of the year; but, contrary, the Lieutenant-Governor believes, to the practice in the South Maratha and Berar country, is irrigated in the light way described. So grown in the dry season, and with the aid of canal water, His Honor thinks that we certainly ought to have better cotton than the ordinary inferior staple of the rainy season; but the samples sent having been grown from the ordinary seed, and very badly prepared, proved to be very dirty and not superior to ordinary Bengal cotton.

1. To Canal Revenue Superintendent, Orissa, No. 225 I, dated 14th February 1873.
2. From ditto ditto, No. 139, dated 1st March 1873.
3. To Chamber of Commerce, No. 370 I, dated 8th March 1873.
4. From ditto ditto, dated 29th April 1873, with this office endorsements thereon, Nos. 637-638 I, dated 2nd May 1873.
5. To Revenue Superintendent of Canals, Orissa, No. 674 I, dated 8th May 1873, with endorsement No. 675 I.
6. To Chamber of Commerce, No. 676 I, dated 8th May 1873.
7. From ditto ditto, dated 13th May 1873.
8. From Revenue Superintendent of Canals, Orissa, No. 314, dated 13th May 1873.
9. To Chamber of Commerce, No. 696 I, dated 13th May 1873.
10. From ditto ditto, dated 19th May 1873.

2. The Lieutenant-Governor desires that the Government of India should be asked to supply good varieties of seeds, and to sanction this Department making experiments on the canals both in growing and cleaning cotton, as suggested by Mr. Toynbee.

No. 225 I, dated the 14th February 1873.

From—LIEUT.-COLONEL F. T. HAIG, R.E., Offg. Joint-Secretary to the Government of Bengal in the Public Works Department, Irrigation Branch,
To—The Canal Revenue Superintendent, Orissa.

I AM directed to request you to send up well-selected specimens of the cotton grown in the delta for valuation in Calcutta, and to distinguish particularly that grown *near the coast* between Marsaghai and the sea from that grown further inland.

No. 139, dated Camp Balbhadrapore, the 1st March 1873.

From—G. TOYNBEE, ESQ., Canal Revenue Superintendent, Orissa,
To—The Officiating Joint-Secretary to the Government of Bengal in the Public Works Department, Irrigation Branch.

IN reply to your No. 225 I, dated 14th February 1873, I have the honor to forward (by dâk banghy) the specimens of cotton therein called for, with a third which may be useful for comparison.

2. Each packet contains one anna's worth of cotton of the ordinary kind, fair quality, as sold at the mofussil *hâts*.

No. I. packet contains 5 *pals* (the local weight by which cotton is sold in the mofussil) of dry-weather cotton of last year, and was grown near Kendupatna.

No. II. packet contains 4 *pals* of cotton grown between Marsaghai and the sea in Killa Coojung, the price here being higher than it is further westward.

No. III is Sumbulpore cotton, 5 *pals*, which is brought down by boat in the rains and retailed by local dealers.

3. The cotton grown between Marsaghai and the hills finds its way, I believe, in considerable quantities both by land and sea to Calcutta. The

mahajuns give advances to the cultivators on their crops, and thus it is that the local cotton retained in the province is not enough for local consumption, and has to be supplemented by Gurjat or Sumbulpore cotton.

4. Owing to the difficulties of communication along the coast, but little (if any) of the cotton grown beyond Marsaghai finds its way westward.

No. 370 I, dated the 8th March 1873.

From—LIEUT.-COLONEL F. T. HAIG, R.E., Offg. Joint-Secretary to the Government of Bengal in the Public Works Department, Irrigation Branch,
To—The Secretary, Bengal Chamber of Commerce.

No. 225 I, dated 14th ultimo, to the Canal Revenue Superintendent, Orissa.
No. 139, dated 1st current, from ditto ditto.

I AM directed by the Lieutenant-Governor to forward, for the information of the Chamber of Commerce, copies of the correspondence marginally noted, and to request that you will be good enough to favor him with any information you can respecting the commercial value and quality of the accompanying samples of cotton.

2. The cotton is largely grown in the area irrigated by the Orissa canals, and the cultivation might be considerably extended.

Dated the 29th April 1873.

From—H. W. I. WOOD, ESQ., Secretary, Bengal Chamber of Commerce,
To—The Officiating Joint-Secretary to the Government of Bengal in the Public Works Department, Irrigation Branch.

In reply to your letter No. 370 of 8th ultimo, forwarding samples of cotton grown in the area irrigated by the Orissa canals, and requesting to know their commercial value and quality, I have the honor to submit the following report for the information of His Honor the Lieutenant-Governor:—

Sample No. 1.—Not merchantable in the state it has been handed in for classification; seems to have been gathered in an unripe state, fibre and seed being coherent. After cleaning from seed the cotton shows a quality which I should classify as nearly good Bengal, good staple for Bengal, silky, slightly stained in color, and lacking somewhat in strength; to-day's value, if perfectly free from seed and other impurities, about Rs. 17 per bazar maund.

Sample No. 2.—The same as above, more silky and stronger; value, about Rs. 17-4 per bazar maund, if quite free from seed and impurities.

Sample No. 3.—The same as sample No. 1; good in color, almost fine Bengal; value about Rs. 17-8, if perfectly free from seed and other impurities.

Bengal Public Works Department, Irrigation Branch, Orders dated 2nd May 1873.

No. 637 I.

COPY of the above forwarded to the Commissioner of Orissa for information.

No. 638 I.

COPY of the above forwarded to the Revenue Superintendent of Canals, Orissa, for information.

No. 674 I, dated the 8th May 1873.

From—LIEUTENANT-COLONEL F. T. HAIG, R.E., Officiating Joint-Secretary to the Government of Bengal in the Public Works Department, Irrigation Branch,
To—The Revenue Superintendent of Canals, Orissa.

WITH reference to this Office No. 638 I, dated 2nd instant, and previous correspondence, I am directed to request that you will submit a report for the information of His Honor the Lieutenant-Governor, giving further particulars regarding the seasons at which cotton is sown and gathered in different parts of Cuttack; the extent to which each cotton crop is sown;

whether there are different varieties or only one sort; and whether it is not to be had in a better state than is described in the letter of the Chamber of Commerce. I am also to request you to try the experiment of irrigating dry-weather cotton.

No. 675 I.

Copy of the above forwarded to the Commissioner of Orissa for information, with reference to this office No. 637 I, dated 2nd instant. The Lieutenant-Governor begs that the Commissioner will see that the experiment is fairly carried out.

No. 676 I, dated the 8th May 1873.

From—Lieut.-Col. F. T. Haig, R.E., Offg. Joint-Secretary to the Government of Bengal in the Public Works Department, Irrigation Branch,
To—The Secretary, Bengal Chamber of Commerce.

With reference to your letter dated 29th ultimo, reporting on samples of cotton grown in the area irrigated by the Orissa canals, I am directed to request the favor of your stating what such cotton would be worth in England at the time you quoted the prices for India.

Dated the 13th May 1873.

From—H. W. I. Wood, Esq., Secretary, Bengal Chamber of Commerce,
To—The Offg. Joint-Secretary to the Government of Bengal in the Public Works Department, Irrigation Branch.

In acknowledgment of your letter No. 676 I, of the 8th instant, I beg to inform you that cotton similar to the sample sent by you was sold about the end of last month at a limit of 5¾*d.* per ℔ to a spinning establishment in Germany.

The above price comprised first *cost and freight* only, and such cotton, if bought at the valuation named, would sell in London at about 5⅘*d.* per ℔ so as to cover all costs, without any commission. I may add that such good Bengal cotton seldom reaches the London market, and the quotations for it there are generally to be considered as nominal.

No. 314, dated Cuttack, the 13th May 1873.

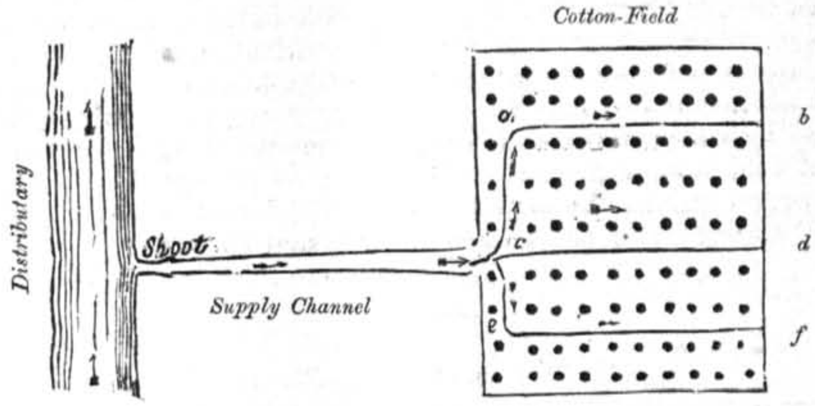
From—G. Toynbee, Esq., Canal Revenue Superintendent, Orissa,
To—The Offg. Joint-Secretary to the Government of Bengal in the Public Works Department, Irrigation Branch.

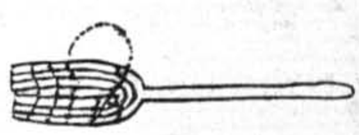
In reply to your No. 674 I, dated 8th instant, I have the honor to report as follows:—

1*st.*—In the Cuttack district only two varieties of cotton are grown, viz., the *haldiya* and the *achnâ*; the former is, generally speaking, the cotton of the hills and rainy season; the latter of the plains and dry season. It will be convenient to describe the mode of cultivating them separately.

2*nd.*—The *haldiya* variety is sown in June and July and picked in October and November. Though generally grown in the *Gurjats*, where newly reclaimed jungle land is largely available and best suited to the crop, it is also occasionally met with in the delta of the Mugulbundi, but in very small quantities, and grown either on land reclaimed from jungle or else within the precincts of the royts' own homesteads. It is but rarely grown on the ordinary *dofasli* or *biyali* lands. But little care is given, I believe, to its cultivation, the earth being turned over, as for rice, and the plant left to itself with the exception of an occasional weeding.

3*rd.*—The *achnâ* variety is sown in November, December, and January on the *dofasli* or *biyali* lands, and is picked in May, June, and July. The seed used is the seed of the *haldiya* variety, and the ordinary mode of cultivation is as follows:—The land is allowed to lie fallow for the whole of the rainy season, the rotation of crops being as follows:—(1) *biyali*, followed by *biri*, *mug*, linseed, or other similar crop; (2) fallow; (3) cotton. The land is ploughed at the end of November, in December, or at the beginning of January, as may happen to suit the rainfall, the closing of the canals, or the ryots' convenience, and is brought into the ordinary condition of garden soil. Whatever manure the ryot has to spare (which is generally so little and of such a quality as to be of but little benefit) he puts down. The soil is then worked up into ridges and the seed dibbled in by hand, five or six seeds in each place, at intervals along the ridges of about a foot. To prepare the soil water is required; and, as a rule, cotton is not grown in any place where there is not a supply of water of some kind. The soil is moist below where the seed is put down, though dry above. When the plants are about half a foot high and there has been no rain, the first watering is given, and this is continued at intervals of about fifteen days until the middle or end of May, when the crop is in full flower. The first and last waterings are the most important of all. The method of watering is peculiar. A small channel is made from the source of the water-supply to the highest point in the cotton field, from whence it can be distributed. The rough sketch given below will serve to illustrate the process. The red lines (*a b* to *e f*) within the field—are small subsidiary channels connected with that leading to the field. When the water is first turned on, the mouths of the sub-channels *c d* and *e f* are closed, and the whole supply is allowed to go into sub-channel *a b*. The ryot then takes his stand about ten yards from the mouth, and bunds the channel at his feet. As the water comes down he throws it forward right and left with a scoop (*sená*) made of very light wood (of the *simul* or cotton tree) of this shape, the dotted line being a piece of string which he holds in the left hand while he holds the handle in his right. When all the cotton within reach of his first position has been thus sprinkled with water, and the ground thoroughly saturated, the ryot opens the bund and lets down water to the next reach of ten yards, and so on until the whole of the land covered by sub-channel *a b* has been watered, when he proceeds to use *c d*, *e f*, in the same manner until the whole field has received water. Cotton is never irrigated in the ordinary manner by flooding the roots, the cultivators declaring that water unless given from above kills the crop. I have invariably noticed that any crop which has by accident been flooded, even slightly, has suffered considerably. If you call a ryot who is engaged in watering cotton in the ordinary method as above described, he will invariably shut off the water at the source of supply before he comes to you. Any excess of water, such as percolation, entirely ruins the crop. To the eye there is but little perceptible difference in an ordinary year between an irrigated crop of cotton and one which has had nothing but rain water, but the ryots say that there is a great difference in yield independently of the appearance of the plants. Two or three days after each watering, when the upper crust of the soil has got caked and *sour* (if I may so describe its greenish appearance), the cultivator takes his *kodal* and digs the whole field,





completely turning over the soil and eradicating all weeds. When the plants are about to come into flower they are thinned, not more than three or four being left in the same place. If they are unusually large and leafy, the tops are nipped off, or calves turn in to graze for a few hours to prevent their going too much to wood and bearing consequently less flower. The plants vary in height from two to five feet when in full growth. As the cotton becomes ready for picking, the whole family turns out and collects the pods as occasion demands. The picking begins in May and lasts until July; the crop, however, requires no water after the former month.

4th.—As no difference is made in the treatment of the two varieties of cotton after they have been picked, one description of their subsequent treatment will do for both. The cotton is first dried in the sun; when dry, the seed is removed, and the cotton after being cleaned is worked into thread by the women of the family and sold at the *hâts* or to it itinerant dealers. This description applies only to the lower classes and Mussulmans, who generally only grow just enough for home consumption. The Brahmins and better class of ryots grow cotton on advances made by local *mahajuns*, to whom they deliver it, and who again re-sell it at the *hâts*, or for export in the same form as the specimens forwarded with my letter No. 139, dated 1st March 1873. In this form and in that of thread it is *alone* procurable in the markets, and not in large quantities in either. If, as is probable, the cultivation of this crop should be in future largely extended by means of irrigation, and the supply become greater than the local demand, it may be worth while to try an experimental cleaning-mill worked by water power, and let out by contract to a large dealar in cotton, who would send it, when cleaned, to Calcutta. At present anything of the sort would be certain failure, the supply being little (if any) in excess of the amount that can be worked up by the women of the poorer classes.

No. 696 I, dated the 13th May 1873.

From—Lieut.-Col. F. T. Haig, R.E., Officiating Joint-Secretary to the Government of Bengal in the Public Works Department, Irrigation Branch,

To—The Secretary, Bengal Chamber of Commerce.

I am directed to forward the accompanying sample of cotton grown from foreign seed in the Cuttack delta, and to request you to favor the Lieutenant-Governor with your opinion as to its quality and value.

2. The cotton is sent just as it was taken from the tree.

Dated the 19th May 1873.

From—H. W. I. Wood, Esq., Secretary, Bengal Chamber of Commerce,

To—The Officiating Joint-Secretary to the Government of Bengal in the Public Works Department, Irrigation Branch.

In acknowledgment of your letter No. 696 of the 30th instant, forwarding a sample of cotton grown from foreign seed in the Cuttack delta, and requesting an opinion as to its quality and value, I have to state, for the information of His Honor the Lieutenant-Governor, that the sample represents a very superior kind of cotton, particularly such part of it which contains the sound kernels or seed; some of the seed or kernels seem to be worm-eaten, and the cotton surrounding them is less strong and shorter in fibre. But the average sample consists of far superior quality to any cotton exported from any part of India.

The staple equals in length, silkiness, and strength almost Egyptian cotton, which, on the basis of 9¼*d.* for middling Orleans (last quoted by Reuter), would be worth in London to-day about 10¼*d.* per ℔.

The price of 10¼*d.* per ℔ for sale in London requires a first cost of about Rs. 31 per bazar maund in screwed bales, or about Rs. 30 to Rs. 30-4 for loose.

No. 1278, dated the 11th June 1873.

From—The Asst. Secy. to the Govt. of Bengal in the Agricultural Department,
To—The Secy. to the Govt. of India in the Dept. of Agriculture, Revenue, and Commerce.

I AM directed to submit herewith copy of a memorandum,* with enclosures, from the Irrigation Department of this Government, regarding the cultivation of cotton, from which the Government of India will perceive that there is a much more careful cultivation of this staple in Orissa than is known elsewhere on this side of India.

2. The Lieutenant-Governor would feel thankful if His Excellency the Governor-General in Council would be pleased to procure for the Bengal Government, through the Commissioner of Cotton and Commerce, six maunds of each of the following kinds of cotton seed for experimental cultivation :—

- Hingunghat seed.
- Egyptian seed.
- Acclimatized New Orleans.
- Jerree (or spring cotton) seed from Chandoll.

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* No. 788 I, dated 27th May 1873.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 14th June 1873.

	No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
BENGAL.							
		Western Districts.	1873.				
BURDWAN DIVISION.	1	Burdwan ...	June 17th*	0·80	Weather hot ...	Rain much wanted for the sowing of aus and amun crops; grain market dearer.	Fever prevalent.
	2	Bancoorah ...	" 14th	0·10	There has been slight showers of rain throughout the district.	The amun rice is being sown, but rain is much wanted. Teel is being cut; cotton and sugarcane are good.	
	3	Beerbhoom ...	" 14th	0·10	There has been little rain. Light clouds. Temperature considerably lower.	The rain of the previous week has done much good. Sugarcane has been planted out, and ploughing is going on; last week's rain less plentiful to the east of the district than elsewhere.	Public health good.
	4	Midnapore ...	" 14th	0·45	There appears to have been a fair rainfall in the west and north-west of the district, but all along the east and south rain is much wanted; very little rain at the sudder, but weather much cooler. Barometer low.	Depend entirely on the rainfall. There seems every probability of a heavy fall daily, but it continually holds off.	
	5	Hooghly ...	" 14th	0·84	Rain throughout the district on the 14th; at the commencement of the week the weather was very hot and at times cloudy.	Prospect of aus dhan not very good for want of rain. The ground is being prepared for amun dhan; the late rains will do some good to the crops.	
		Howrah ...	" 14th	1·57	Very hot. Heavy rain at sudder station on Friday; it has not yet been ascertained whether it was general.	Rain much required. If yesterday's rain was general it will have done a great deal of good.	
		Central Districts.					
PRESIDENCY DIVISION.	6	24-Pergunnahs ...	" 17th	2·6	Very hot during the first five days of the week. Rain fell on Friday and Saturday more or less throughout the district. Since then the weather has been cooler.	The crops have been injured in some places by want of rain. There were some heavy showers towards the end of the week, which have done much good; sowings will now be completed.	General health good. A few cases of cholera reported at Basirhat; ordinary fever still prevailing at Barraipore.
	7	Nuddea ...	" 14th	0·11	Hot and not nearly rain enough.	Rain is much required everywhere. It rained yesterday and there has just been a heavy shower, and it is hoped that the rains have fairly set in at last.	
	8	Jessore ...	" 14th	0·16	Hot and cloudy. Light showers only in the north-east; heavy rain in the afternoon of the 13th instant.	Crops getting on fairly, but want rain.	
RAJSHAHYE DIVISION.	9	Moorshedabad ...	" 14th	0·09	There has been some rainfall in the course of the week, but the temperature has been hot and sultry.	The prospects of the crops have much improved; but more rain is still wanted. Dhan is germinating, and indigo is progressing favorably.	
	10	Dinagepore ...	" 14th	8·89	Rain has fallen throughout the district, and the rainy season appears to have fairly set in.	The rain has done an immense deal of good to all crops in the ground which are now progressing favorably.	
	11	Maldah ...	" 14th	1·56	During the first three days of the week the sky was overcast with clouds with strong easterly winds and occasional thunder and lightning. There was rain on all other days.	The rains that fell this week will do much good to the standing crops, bhadoi and amun.	

* Telegram of the 17th June received on the same day.

	No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
BENGAL.—(*Contd.*)							
		Central Districts.—(Contd.)	1873.				
RAJSHAHYE DIVN.—(*Contd.*)	12	Rajshahye ...	June 14th	0·96	All the days were hot. The winds blew moderately.	The rain of the last week has much improved the prospects of the crops; teel and boro dhan are still being reaped. The mulberry and indigo plants are doing well.	
	13	Rungpore ...	„ 14th	2·02	Seasonable ...	The crops progressing favorably.	
	14	Bograh ...	„ 14th	1·99	Warm with occasional showers.	All crops are progressing fairly. Jute is now promising; sowings of late rice for transplantation have begun.	
	15	Pubna ...	„ 14th	3·84	Slight rainfall on the 6th, and a heavy shower on the 11th June; weather cloudy and hot.	Crops thriving except indigo, the prospects of which are not very good, nor would rain be now likely to improve these; the manufacturing season has commenced.	
COOCH BEHAR DIVISION.	16	Darjeeling ...	„ 14th	3·02	There have been some good falls of rain during the week which have been very favorable to the crops.	The hill crops are doing well, and those in the plains are said to have recovered from the effects of the recent drought. Tea is said to be doing fairly.	
	17	Julpigoree ...	„ 14th	21·42	The rain has set in with unusual force. On Monday night, about 11 P.M., a thunderstorm with lightning and very heavy rain commenced; the storm lasted 7 or 8 hours, being constantly either immediately over the station or circling round it. More than 10·70 inches of rain in one night.	Jute and bhadoi dhan are doing well.	
		Cooch Behar ...	„ 14th	25·58	Copious rain generally at night and in the mornings. Heavy thunderstorms on two nights.	The recent wet weather has been favorable for the aus dhan, but not for the jute, which is injured by excessive rain.	
		Eastern Districts.					
DACCA DIVISION.	18	Dacca ...	„ 17th*	1·71	Rains fairly set in ...	Prospects of crops good. River risen rapidly, but no damage done.	
	19	Furreedpore ...	„ 14th	0·69	Weather close and windy alternately, occasionally cloudy, but generally clear.	The rivers are rising rapidly; from the appearance of the sky copious rain may be expected shortly; crops in every way progressing satisfactorily.	
	20	Backergunge ...	„ 14th	1·33	Fair with occasional showers of rain.	Good, but more rain is wanted.	
	21	Mymensing ...	„ 14th	1·23	Generally cloudy and showery.	There has been sufficient rain for the amun rice; the aus crop is looking well; the teel crop is being reaped. The river has risen considerably during the week.	
	22	Sylhet ...	„ 7th	9·76	Cool. Rains fairly set in	The heavy rainfall has been most welcome to ryots and tea planters.	The Surma has risen 15 feet since Tuesday night.
	23	Cachar ...	„ 7th	6·06	Cloudy, with rain ...	Rains have commenced. Tea prospects good.	
CHITTAGONG DIVN.	24	Chittagong ...	„ 7th	0·72	There was a little rain during the week. The weather has been generally breezy with clouds, and fairly cool for the time of the year.	Nothing new to report. Field work will not commence in earnest till more rain falls.	Cholera still reported from sudder and Potia stations. Fever appears to be decreasing.
	25	Noakhally ...	„ 7th	4·46	Rainy and stormy ...	Chillies, sesamum, and moog, reaped and gathered. Sowing of aus dhan commenced.	
	26	Tipperah ...	„ 14th	0·84	A good deal of drizzling rain during the week. Rainfall at sub-division 2·69 inches.	Heavier rain is required; from the look of the weather it appears that it should soon fall. Prospects, however, are good.	

* Telegram of the 17th June received on the same day.

	No.	District.	Date of return from each district.	Rainfall at Sudder station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
BENGAL.—(*Contd.*)		*Eastern Districts.*—(*Contd.*)	1873.				
CHITTAGONG DIVN.	27	Chittagong Hill Tracts	June 7th	3·9	Fall of rain on the 1st and 3rd. The latter part of the week has been hot.	The crops are doing well owing to the plentiful fall of rain. In the jooms where the crops were scorched by heat seed is being resown.	
		Hill Tipperah ...	„ 7th	1·72	First part of the week rainy and cloudy, and the latter part excessively hot.	Ploughing and sowing going on; more rain wanted for the joom cultivation in the hills.	
BEHAR.							
PATNA DIVISION.	28	Patna ...	„ 17th*	1·47	Weather changeable with occasional showers of rain.	The rain of Saturday has done much good to agriculturists.	Small-pox lessening, but cholera still prevalent.
	29	Gya ...	„ 14th	0·93	Hot ...	Rain much wanted. Lands commenced to be ploughed.	Small-pox still prevalent.
	30	Shahabad ...	„ 14th	1·20	Great heat during the week; heavy rain fell on Friday morning and on the day of report. Cloudy and threatening rain.	Sugarcane progressing ...	Small-pox and cholera still prevalent in places.
	31	Tirhoot ...	„ 14th	2·	Hot and cloudy ...	Rain fell on the 12th and has done much good to the crops on the ground. Indigo was backward, but the late rain will freshen it. Dhan and moog on low lands have been benefited by the late rain. The rain of the 14th will be beneficial to the cultivation, but more is still wanted.	There are still cases of cholera in the south-east of the district.
	32	Sarun ...	„ 14th	1·17	Hot and sultry until the rains commenced. Rain on the 12th, 13th, and 14th; cloudy with east and west winds.	The rains have apparently commenced; the late rains have benefited the crops. Prospect of indigo continues favorable. Moog, sugarcane, and bo ro dhan are doing well. The bhadoi sowings will shortly commence.	
	33	Chumparun ...	„ 14th	3·95	Rainy and cool ...	The rain has been of much benefit; agricultural operations hitherto suspended for want of rain have now commenced.	
BHAUGULPORE DIVN.	34	Mongbyr ...	„ 14th	1·24	Heavy masses of clouds on all sides indicating heavy rain shortly. Heavy rain fell on the morning of the 12th.	The ground is being broken up on all sides; the heavy rainfall, which was much wanted, will do much good.	
	35	Bhaugulpore ...	„ 17th*	1·34	Heavy rains throughout the district.	Crops on the ground improving, and sowing very general.	Small-pox still prevalent.
	36	Purneah ...	„ 14th	5·66	Heavy rain on Wednesday and Thursday.	Bhadoi crop much improved by the late rains.	
	37	Sonthal Pergunnahs ...	„ 14th	1·37	Cloudy with a good deal of rain throughout the district.	Ploughing and the sowing of goondli and indian-corn actively going on.	
ORISSA.							
ORISSA DIVISION.	38	Cuttack ...	„ 17th*	1·2	Less rains at sub-divisions. Rains set in yesterday.	Sowing well advanced ...	Cholera disappeared.
	39	Pooree ...	„ 7th	0·02	A little cloudy, but excessively, hot. Hopes are entertained of a fall of rain in moderation shortly.	In some pergunnahs the dalua crop is being reaped, in others it is ripening. About one-fourth of the sarud seed grain sown in low lands of certain pergunnahs has come up, but there is a probability of its suffering from want of rain. In some pergunnahs sarud has been already sown in low lands, and preparation for sowing on higher lands is being made. In some places cotton is being gathered, and in others it is ripening. Sugarcane is being earthed up.	
	40	Balasore ...	„ 14th	0·11	Muggy and cloudy; rain in the sudder station last night. Looks like the beginning of the rains.	Sowing actively progressing. Early rice crop sprouting. Rain wanted in the south.	

* Telegram of the 17th June received on the same day.

No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	Remarks.
CHOTA NAGPORE.						
	South-West Frontier Agency.	1873.				
41	Hazareebaugh ...	June 14th	1·13	Little rain on the 12th, since then dry, but cooler than last week.	The rain has advanced the cultivation a little, ploughing has commenced in places; more rain is wanted.	Small-pox has decreased very slightly.
42	Lohardugga ...	„ 14th	0·92	Very hot and close up to the 10th, when there was a heavy dust-storm with moderate rain. Again storms on the 11th and 13th, but little rain.	In Chota Nagpore the sowings generally appear to be being carried on under favorable circumstances; in Palamow rain is anxiously looked for.	
43	Singbhoom ...	„ 7th	0·02	Weather fiercely hot during the whole week, but there are indications of rain approaching.	Rain wanted very much indeed. Serious fears beginning to be entertained for the sowings of paddy that have already been made.	
44	Maunbhoom ...	„ 14th	0·05	Showery and cooler ...	Partial showers have fallen which have done good to the crops which have been sown, but more rain is wanted.	Cholera and small-pox still prevalent, but not apparently on the increase
ASSAM AND ADJACENT HILLS.						
45	Goalparah ...	„ 7th	4·91	Rain almost daily during the week. Weather cool and pleasant.	It is reported from some parts that some of the plants of asoo dhan were destroyed by the sunny days before the late rains came on. Both asoo and jute crops will benefit by the present rain.	Small-pox is on the decrease. Cholera is still prevalent, but not increasing.
46	Kamroop ...	„ 16th*	2·90	The week was cloudy with frequent heavy rains.	Prospects of aus crop, tea, cotton, and sugarcane favorable. Shali dhan is being sown in nurseries.	Public health on the whole good. There have been some cases of cholera in the sudder station, but not epidemic.
47	Durrung ...	„ 7th	4·12	Temperature variable; south-west wind prevailing.	Ploughing renewed. Prospects of crops good.	Some cases of small-pox and cholera, but to no great extent.
48	Nowgong ...	„ 7th	2·74	Cloudy and seasonable, some smart heavy showers of rain during the week.	The aus crop is doing well. *Bao* dhan being planted out. Tea prospects better.	Cattle murrain decreasing. No report of cholera being on the increase.
49	Seebsaugor ...	„ 7th	3·28	Fair. Showery the last two days.	Rain is much wanted. The showers have been slight and partial.	Cattle disease continues.
50	Luckimpore ...	„ 7th	5·30	The weather was comparatively cool for the season; rain fell on 4 days. There was a good deal of thunder and some lightning.	Prospects of the crops good.	
51	Naga Hills ...	May 31st	1·13	Several showers have fallen both in the station and in the district, and the weather has become very much cooler.	Better than it was last week, but still uncertain.	
52	Khasi & Jynteah Hills	June 7th	0·53	The season is unusually backward, and the weather has been boisterous, with occasional showers of rain.	The crops—rice, indian-corn, potatoes, job's-tears, and millet—are coming on, but it is feared that the lateness of the season may cause damage. Rain is much needed in the northern parts of the hills.	
53	Garo Hills ...	„ 7th	3·10	Stormy weather; Thursday the wind almost blew a hurricane. The rains appear to have been general over the district.	The crops which were suffering much from the drought are improving. The rains came in just in time to save them.	

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* Telegram of the 16th June received on the 17th.

Published for general information.

Calcutta, Statistical Dept.,
The 17th June 1873.

R. Knight,
Asst. Secy. to the Govt. of Bengal.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

DIVISION.	DISTRICT.	STATION.	Rain from 25th to 31st May 1873.	Rain from 1st to 7th June 1873.	RAIN FROM 1ST JANUARY 1873.		REMARKS.
					Inches.	Up to date.	
BENGAL.			Inches	Inches.	Inches.	1873.	
	WESTERN DISTRICTS.						
BURDWAN.	Burdwan	Burdwan	0·73	1·34	10·95	7th June.	
		Cutwa	0·39	3·42	10·11	ditto.	
		Culna	0·29	0·97	7·78	ditto.	
		Bood-Bood	0·23	3·15	10·15	ditto.	
		Raneegunge	Nil	1·04	5·48	ditto.	
		Jehanabad	0·57	0·53	6·39	ditto.	
	Bancoorah	Bancoorah	0·32	1·36	10·56	ditto.	
	Beerbhoom	Sooree	0·61	2·55	5·12	ditto.	
	Midnapore	Midnapore	0·66	0·95	13·01	ditto.	
		Tumlook	0·09	0·14	6·86	ditto.	
		Gurbetta	0·35	2·51	9·40	ditto.	
		Contai … Dy. Collr.'s Office	1·00	0·13	4·90	ditto.	
		Contai … Exe. Engr.'s Office	1·37	Nil	6·77	ditto.	
	Hooghly	Hooghly	0·51	0·83	8·69	ditto.	
		Serampore	0·79	0·22	7·89	ditto.	
	Howrah	Howrah	0·48	0·36	7·00	ditto.	
	CENTRAL DISTRICTS.						
PRESIDENCY.	24-Pergunnahs	Saugor Island	1·40	0·10	6·93	ditto.	
		Calcutta	0·96	0·43	7·23	ditto.	
		Alipore… Dispensary	1·42	Nil	6·85	ditto.	
		Alipore… Jail	1·17	ditto	6·31	ditto.	
		Busseerhaut	1·39	0·58	5·33	ditto.	
		Baraset	0·73	Nil	5·20	ditto.	
		Diamond Harbour	0·35	0·38	7·28	ditto.	
		Barripore	2·17	0·86	10·03	ditto.	
		Satkherah	2·35	0·08	8·35	ditto.	
		Barrackpore	0·85	0·55	8·12	ditto.	
		Dum-Dum	0·18	0·24	7·00	ditto.	
	Nuddea	Kishnaghur	0·65	1·34	9·14	ditto.	
		Bongong	2·04	Nil	5·99	ditto.	
		Meherpore	0·40	1·61	8·26	ditto.	
		Chooadangah	3·20	2·87	10·47	ditto.	
		Kooshtea	0·82	3·30	10·87	ditto.	
		Ranaghat	0·88	0·18	5·70	ditto.	
	Jessore	Jessore	0·95	0·56	7·68	ditto.	
		Nurail	1·35	0·45	12·95	ditto.	
		Khoolneah	1·10	0·60	11·82	ditto.	
		Jenidah	0·30	1·28	8·32	ditto	Not received, 18th to 24th May.
		Bagirhaut	3·86	1·45	12·86	ditto.	
		Magoorah	0·71	0·97	11·57	ditto.	
RAJSHAHYE.	Moorshedabad	Berhampore	0·35	1·23	4·32	ditto.	
		Ramporehaut	Nil	0·30	3·51	ditto.	
		City Moorshedabad	0·03	0·69	2·86	ditto.	
		Jungipore	0·04	2·42	5·31	ditto.	
		Azimgunge	0·20	1·06	4·29	ditto.	
		Lalgolla	0·20	1·26	4·53	ditto	From 1st April.
	Dinagepore	Dinagepore	0·34	2·93	5·39	ditto.	
	Maldah	Maldah	Nil	1·12	3·11	ditto.	
	Rajshahye	Beauleah	0·14	2·74	6·26	ditto.	
		Nattore	Nil	2·74	9·71	ditto.	
	Rungpore	Rungpore	0·77	2·71	13·21	ditto.	
		Bhowanigunge	0·31	2·59	9·62	ditto.	
		Titalya	0·62	1·67	11·56	ditto.	
	Bograh	Bograh	0·06	2·28	8·21	ditto.	
	Pubna	Pubna	1·91	0·95	12·19	ditto.	
		Serajgunge	1·54	2·74	8·27	ditto.	Not received, 18th to 24th May.
COOCH BEHAR.	Darjeeling	Darjeeling Telegraph Office	2·13	Not rec.	14·80	31st May.	
		Darjeeling Hospital	2·12	1·28	14·18	7th June.	
	Julpigoree	Julpigoree	0·02	3·00	14·00	ditto.	
		Fallacotta	0·47	4·83	22·69	ditto.	
		Bodah	0·90	2·67	13·40	ditto.	
	Cooch Behar Tributary State	Cooch Behar	Nil	12·64	25·35	ditto.	
	Bhutan Dooars	Buxa	2·25	14·39	24·12	ditto.	
	EASTERN DISTRICTS.						
DACCA.	Dacca	Dacca … Telegraph Office	0·11	3·72	18·59	ditto.	
		Dacca … Hospital	0·05	2·85	13·25	ditto.	
		Moonshegunge	0·53	3·57	17·37	ditto.	
		Manickgunge	0·65	1·14	11·44	ditto.	
	Furreedpore	Furreedpore	1·35	2·54	17·67	ditto.	
		Goalundo	2·42	2·24	10·80	ditto.	
	Backergunge	Burrisaul	3·44	1·54	11·35	ditto.	
		Perozepore	3·36	2·93	13·37	ditto.	
		Madaripore	3·21	1·15	18·02	ditto.	
		Patooakhally	8·42	5·12	22·78	ditto.	
		Dowlat Khan	3·60	1·15	14·62	ditto.	
	Mymensing	Mymensing	0·84	5·21	13·19	ditto.	
		Jamalpore	Nil	4·21	15·49	ditto.	
		Atteah	0·41	2·00	10·62	ditto.	
		Kishoregunge	2·34	3·86	14·53	ditto.	
	Sylhet	Sylhet	0·44	9·90	34·87	ditto.	
	Cachar	Cachar	3·50	6·06	23·45	ditto.	
		Hylakandy	3·58	Not rec.	2[illegible]·94	31st May.	
		Koyah	0·70	2·80	17·82	7th June.	
CHITTAGONG.	Chittagong	Chittagong Telegraph Office	1·39	0·70	11·00	ditto.	
		Chittagong Jail	0·49	0·69	12·09	ditto.	
		Cox's Bazar	2·99	5·55	21·74	ditto.	
	Noakhally	Noakhally	3·23	4·03	26·32	ditto.	
	Tipperah	Comillah	0·38	2·75	16·42	ditto.	
		Brahmanbariah	0·20	4·91	19·29	ditto.	
	Chittagong Hill Tracts	Rungamatee Hill	2·04	3·90	13·50	ditto.	
	Hill Tipperah	Hill Tipperah	0·25	1·72	15·99	ditto.	

DIVISION.	DISTRICT.	STATION.	Rain from 25th to 31st May 1873.	Rain from 1st to 7th June 1873.	RAIN FROM 1ST JANUARY 1873.		REMARKS.
					Inches.	Up to date.	
	BEHAR.		Inches.	Inches	Inches.	1873.	
PATNA.	Patna ...	Patna	Nil	Nil	1·30	7th June.	
		Behar	ditto ...	ditto ...	1·17	ditto.	
		Barh	ditto ...	ditto ...	1·45	ditto.	
		Dinapore... Jail	ditto ...	ditto ...	1·26	ditto.	
		Dinapore... Cantonment ...	ditto ...	ditto ...	0·55	ditto.	
	Gya ...	Gya	ditto ...	ditto ...	1·41	ditto.	
		Nowadah	ditto ...	ditto ...	1·34	ditto.	
		Aurungabad	ditto ...	ditto ..	2·26	ditto.	
		Jehanabad	ditto ...	ditto ...	1·36	ditto.	
	Shahabad ...	Arrah	ditto ...	ditto ...	2·14	ditto.	
		Sasseram	ditto ...	0·02	1·33	ditto.	
		Buxar	ditto ...	0·05	1·43	ditto.	
		Bhuboosh	ditto ...	0·19	6·05	ditto.	
	Tirhoot ...	Mozufferpore	ditto ...	Nil	5·00	ditto.	
		Durbhangah	ditto ...	ditto ...	2·51	ditto.	
		Hajipore	ditto ...	ditto ...	1·93	ditto.	
		Mudhubani	ditto ...	ditto ...	4·11	ditto.	
		Seetamaree	0·20	ditto ...	3·35	ditto.	
		Tajpore	Nil	ditto ...	3·22	ditto.	
	Sarun ...	Chuprah	ditto ...	ditto ...	2·99	ditto.	
		Sewan	0·79	ditto ...	2·70	ditto.	
	Chumparun ...	Moteehari	0·30	ditto ...	5·60	ditto.	
		Bettiah	Not rec.	ditto ...	5·25	ditto ...	Not received, 4th to 31st May.
BHAUGULPORE.	Monghyr ...	Monghyr	Nil	ditto ...	3·27	ditto.	
		Begooserai	ditto ...	ditto ...	2·13	ditto.	
		Jamooie	ditto ...	ditto ...	1·93	ditto.	
	Bhaugulpore ...	Bhaugulpore	0·01	0·04	1·87	ditto.	
		Soopool	0·09	Nil	2·90	ditto.	
		Mudheypoorah	Nil	0·92	3·17	ditto.	
		Banka	0·80	0·35	3·38	ditto.	
		Sanborsa	1·50	Nil	3·06	ditto.	
	Purneah ...	Purneah	Nil	ditto ...	5·19	ditto.	
		Kishengunge	ditto ...	0·14	3·95	ditto.	
		Arrareah	0·05	0·17	4·84	ditto	
	Sonthal Pergunnahs	Deoghur	Nil	1·03	4·73	ditto.	
		Jamtara	ditto ...	Not rec.	0·94	31st May.	
		Rajmehal	ditto ...	0·50	2·45	7th June.	
		Pakour	ditto ...	1·07	1·47	ditto.	
		Nya-Doomka	ditto ...	2·73	6·81	ditto.	
		Godda	0·60	1·00	4·03	ditto.	
	ORISSA.						
ORISSA.	Cuttack ...	Cuttack Telegraph Office ...	0·50	Nil	4·70	7th June.	
		Cuttack Hospital ...	0·80	ditto ...	5·49	ditto.	
		Jajipore	2·70	Not rec.	8·55	31st May.	
		Kendrapara	3·90	Nil	9·10	7th June.	
		Jugutsingpore	1·37	0·50	6·41	ditto.	
		False Point	3·50	Nil	5·75	ditto.	
	Pooree ...	Pooree	4·14	ditto ...	6·15	ditto.	
		Khurdah	2·02	ditto ...	3·39	ditto.	
	Balasore ...	Balasore	1·83	ditto ...	7·27	ditto	
		Bhuddruck	2·40	ditto ...	5·57	ditto	
		Jellasore	Nil	ditto ...	2·00	ditto ...	From 1st April.
		Sorah	0·32	ditto ...	0·47	ditto ...	ditto.
		Chandbally	2·20	ditto ...	3·57	ditto ...	ditto.
	Cuttack Tributary Mehals ...	Sambalpore	Not rec.	Not rec.	1·69	10th May.	
	CHOTA NAGPORE.						
	SOUTH-WESTERN FRONTIER AGENCY.						
	Hazareebaugh ...	Hazareebaugh Jail ...	0·01	0·36	1·63	7th June.	
		Hazareebaugh Dispensary ...	Nil	1·03	2·57	ditto.	
		Pachumba	ditto ...	0·95	3·72	ditto.	
	Loharduggah ...	Ranchee	0·50	Nil	3·34	ditto.	
		Palamow	0·42	0·05	2·19	ditto.	
	Singbhoom ...	Chyebassa	0·01	0.23	7·05	ditto.	
	Maunbhoom ...	Purulia	Nil	0·53	5·84	ditto.	
		Gobindpore	Not rec.	Nil	3·80	ditto ...	Not received 25th to 31st May.
	ASSAM & ADJACENT HILLS.						
	Goalparah ...	Goalparah	Nil	4·91	25·47	ditto.	
		Dhoobree	0·15	4·67	20·52	ditto.	
	Kamroop ...	Gowhatty	0·07	1·36	18·84	ditto.	
		Burpettah	Nil	1·97	21·66	ditto.	
	Durrung ...	Tezpore	0·40	4·59	19·97	ditto.	
		Mungledye	0·28	Not rec.	19·63	31st May.	
	Nowgong ...	Nowgong	2·19	2·52	16·07	7th June.	
	Seebsaugor ...	Seebsaugor	Nil	Not rec.	27·80	31st May	
		Golaghat	1·53	ditto ...	19·33	ditto.	
		Jorehaut	0·35	ditto ...	17·30	ditto.	
		Nazeerah	Not rec.	ditto ...	25·10	24th May.	
	Luckimpore ...	Debrooghur	1·63	ditto ...	25·64	31st May.	
		North Luckimpore... ...	0·28	ditto ...	14·94	ditto.	
		Suddya	2·23	ditto ...	25·36	ditto.	
	Naga Hills ...	Samoogoodting	Not rec.	ditto ...	11·18	24th May.	
	Khasi and Jynteah Hills.	Shillong	2·62	ditto ...	14·09	31st May	
		Jaowai	0·73	ditto ...	14·24	ditto ...	Not received, 27th April to 10th May.
		Cherrapoonjee	1·39	ditto ...	47·10	ditto.	
	Garo Hills ...	Tura	1·34	3·10	22·40	7th June.	
		Benares	Nil	Nil	0·63	ditto.	
		Akyab	10·60	13·50	28·20	7th June.	

CALCUTTA,
The 14th June 1873.

H. F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

Meteorological Telegraphic Report for the period 8th to 14th June 1873.

Stations.	Date.	Hour.	Barometer reduced to 32°.	Barometer reduced to sea-level.	Thermometer.		Humidity Sat. =100.	Wind.		Rain.	Clouds.	Weather initials.
					Dry.	Wet.		Direction.	* Velocity.			
Calcutta.	June 8th	10	29·591	29·609	92·0	82·0	63	S S W	...	...	C, CS	
		16	29·511	29·529	94·5	81·7	55	S S E	...	...	K	
	9th	10	29·594	29·612	93·0	83·0	64	S S W	...	...	K	
		16	29·502	29·520	94·7	82·5	58	S	...	...	K	
	10th	10	29·602	29·620	92·5	83·6	67	S	...	...	K	
		16	29·482	29·500	96·5	82·6	53	S by E	...	...	K	
	11th	10	29·529	29·547	91·3	83·5	70	S E	...	...	K	
		16	29·404	29·422	93·6	82·7	60	S S E	...	...	C	
	12th	10	29·477	29·495	91·0	84·2	73	E S E	...	...	K, S	
		16	29·326	29·344	96·5	84·6	59	E S E	...	...	K, N	
	13th	10	29·447	29·465	91·3	82·4	66	W	...	...	C	
		16	29·382	29·400	92·5	81·5	60	N	...	...	......	o, t, r
	14th	10	29·511	29·529	86·0	81·5	81	S S W	...	1·69	S	scuds.
		16	29·391	29·409	92·9	83·9	67	W S W	...	...	K, K.	t
Saugor Island.	June 8th	10	29·619	29·625	91	82	66	S	12·3	...	KS	b
		16	29·529	29·535	90	82	69	S	14·7	...	N	b
	9th	10	29·614	29·620	91	82	66	S	10·9	...	N	b, scuds.
		16	29·541	29·547	92	82	63	S	16·0	...	N	b
	10th	10	29·623	29·629	91	83	70	S S E	12·1	...	N	b
		16	29·522	29·528	92	83	67	S	11·6	...	N, K, S.	b
	11th	10	29·547	29·553	92	83	67	S	7·5	...	N	o, m
		16	29·444	29·450	93	84	67	S S E	13·5	...	N	o, m
	12th	10	29·464	29·470	92	83	67	E	1·3	...	N	o
		16	29·367	29·373	90	83	73	E	6·1	...	N	o, u,
	13th	10	29·477	29·483	92	82	63	W N W	8·7	...	N	o, u
		16	29·410	29·416	90	83	73	S S W	1·2	...	N	o, m
	14th	10	29·532	29·538	90	83	73	S S W	10·7	0·70	N	b, v
		16	29·434	29·440	92	84	70	S S W	22·7	...	N	b, m
Chittagong.	8th	10	29·615	29·706	90	81	66	S S W	6·8	...	C, CK, K	b
		16	29·488	29·579	89	81	69	S W	13·9	...	......	b
	9th	10	29·615	29·706	88	80	69	S	8·2	...	K, KS	b
		16	29·534	29·626	87	81	76	S	14·2	...	K, KS	u, b
	10th	10	29·603	29·694	90	81	66	S	5·5	...	KS	b, q
		16	29·531	29·622	88	80	69	S W	16·2	...	K, KS	u
	11th	10	29·534	29·625	90	80	63	E S E	6·3	...	K, KS	b
		16	29·431	29·523	86	78	68	S S E	13·6	...	K, KS	u, t
	12th	10	29·484	29·575	88	79	65	E S E	8·7	...	K, KS	
		16	29·351	29·443	87	78	65	E S E	12·0	...	K, KS	u
	13th	10	?	?	78	77	95	N	8·1	0·40	N	d, o, g
		16	29·372	29·465	78	77	95	W S W	12·6	1·10	N	d, o, g
	14th	10	29·487	29·581	76	76	100	E S E	11·4	4·30	N	o, r
		16	29·445	29.539	77	77	100	N N E	8·4	4·30	......	r, o
Madras.	7th	10	29·679	29·709	94	76	40	W N W	8	...	......	c
		16	29·571	29·601	88	79	65	S E by E	11	...	......	cloudy.
	8th	10	29·648	29·678	89	74	46	W by S	16	...	......	cloudy.
		16	29·604	29·634	80	76	82	W S W	9	0·30	......	cloudy.
	9th	10	29·706	29·736	89	76	52	W by S	17	...	......	cloudy.
		16	29·596	29·626	95	77	41	W S W	7	...	......	cloudy.
	10th	10	29·739	29.769	91	74	41	W	14	...	......	cloudy.
		16	29·633	29·663	93	79	51	N	7	...	......	cloudy.
	11th	10	29·688	29·718	92	75	42	W	18	...	......	cloudy.
		16	29·561	29·591	95	76	38	W by S	8	..	......	cloudy.
	12th	10	29·695	29·725	92	77	48	W	14	0·15	......	c
		16	29·576	29·606	98	76	33	W	10	...	......	cloudy.
	13th	10	29·728	29·758	92	75	42	W by S	17	...	......	c
		16	29·600	29·630	100	76	29	W S W	14	...	......	cloudy.
Cuttack.	8th	10	29·524	29·605	93	80	54	S S E	4·3	...	C, K	b
		16	29·394	29·475	95	81	52	S S E	5·6	...	C, K	b
	9th	10	29·511	29·592	95	81	52	E	3·1	...	CK, C	
		16	29·411	29·492	99	82	46	S S E	4·3	...	CK	b
	10th	10	29·543	29·624	92	81	60	W N W	2·7	...	K	b
		16	29·361	29·442	103	82	38	E	3·1	...	CK	b
	11th	10	29·431	29·512	93	82	60	N N W	3·3	...	K, CK, C	
		16	29·312	29·394	86	78	68	S S E	4·2	...	K, N.	d
	12th	10	29·404	29·485	91	79	56	W N W	2·3	...	KS, N, C	
		16	29·319	29·400	92	79	54	W N W	6·5	...	N	d
	13th	10	29·420	29·502	84	79	79	W	5·2	1·10	N, C	
		16	29·371	29·452	92	81	60	S W	7·0	...	N, C	
	14th	10	29·485	29·567	86	79	72	W S W	4·0	...	KS, N, C	
		16	29·389	29·470	94	82	58	S W	4·6	...	K, C, KS	
Akyab.	8th	10	29·685	29·706	83	80	87	S	0·6	0·10	......	b, g
		16	29·585	29·606	89	83	76	S	4·8	...	......	b
	9th	10	29·707	29·729	82	80	91	S E	2·4	0·40	......	p
		16	29·597	29·618	86	80	75	S	3·3	...	......	b, g
	10th	10	29·700	29·722	80	79	95	S E	1·8	...	......	o, r
		16	29·580	29·601	84	82	91	S	5·0	...	......	p
	11th	10	29·625	29·647	82	80	91	S E	4·3	1·20	......	p, t
		16	29·500	29·522	79	79	100	S	6·3	0·20	......	r
	12th	10	29·593	29·615	79	78	95	S E	5·6	0·50	......	q, g, r
		16	29·484	29·505	83	80	87	S	8·6	0·60	......	q, p, b
	19th	10	29·549	29·571	76	76	100	S	9·3	8·70	......	r, g, v
		16	29·542	29·564	75	75	100	S W	8·3	2·00	......	r, g
	14th	10	29·628	29·649	83	79	83	S W	2·2	...	......	g
		16	29·546	29·567	83	79	83	S S W	1·5	...	......	g

* Velocity of wind in miles per hour.

CALCUTTA,
The 14*th June* 1873.

H. F. BLANFORD,
Meteorological Reporter to the Government of Bengal.

GOVERNMENT OF BENGAL.

PUBLIC WORKS DEPARTMENT,—IRRIGATION BRANCH.

RUBBEE SEASON 1872, COMMENCING ON THE 1ST DECEMBER 1872.

Irrigation Operations of Lower Bengal during the month of April 1873.

Circle.	District.	Canal.	WATER SUPPLIED DURING 187 .		DALWA RICE IRRIGATION.			TOBACCO, COTTON, HULDEE, GINGER, WHEAT, AND GARDEN PRODUCE.			OIL-SEEDS AND PULSES.			SUGARCANE AND OTHER CROPS.					RAINFALL.			REMARKS.
			Estimated full discharge in cubic feet per second.	Average discharge in cubic feet per second throughout the month.	Area leased up to the 1st of the month.	Area leased during the month.	Total area leased up to the end of the month.	Area leased up to the 1st of the month.	Area leased during the month.	Total area leased up to the end of the month.	Area leased up to the 1st of the month.	Area leased during the month.	Total area leased up to the end of the month.	Area leased up to the 1st of the month.	Area leased during the month.	Total area leased up to the end of the month.	Grand total of area leased up to end of month (total of columns 8, 11, 14, and 17).	Grand total of corresponding period of last year.	Inches during month.	Inches up to date.	Average of ten previous years for the same period.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
Orissa ...	Cuttack ...	High Level, Canal, Range I.	675	268	16	...	16	18	3	21	...	...	...	...	...	...	37	...	1·66	1·66	1·98	Details of crops in Orissa Circle as per column 18— Acres. Dalua ... 1,077 Cotton ... 2,121 Sugarcane ... 86 Huldee ... 33 Oil-seeds ... 34 Pulses ... 3 Garden produce ... 56 Total ... 3,410 The area leased up to 30th April 1873 for next Khariff season is as follows:— Kendrapara ... 1,696 Taldundah ... 51 Machgong ... 30 High Level ... 238 Total ... 2,015
	Ditto ...	Kendraparah ...	1,262	242	949	112	1,061	1,812	37	1,840	37	...	37	22	...	22	2,969	...				
	Ditto ...	Taldundah ...	1,300	110	...	...	...	104	35	139	...	...	...	16	6	22	161	...				
	Ditto ...	Machgong ...	650	30	...	...	...	184	17	201	...	...	...	41	1	42	243	...				

South-Western	Midnapore ...	Midnapore ...	875	...	...	...	...	......	......	......	...	...	...	...	...	...	......	...				Most of the dalua rice has been harvested during the month. The cotton crop has come into flower and will require plenty of water during May unless there be showers. Ploughing is universal, and the heavy rain which fell about the 20th April put all thoughts of leasing for *Khariff* out of the heads of the ryots, who were beginning to talk about taking canal water. Sowing has commenced in some places, but more rain is wanted before it can become general.
	Howrah ...	Panchkoorah ...	240	...	724	...	724	......	......	......	...	...	...	...	...	...	724	...				
				Total ...	1,689	112	1,801	2,118	92	2,210	37	...	37	79	7	86	4,134	...				

The 10th June 1873.

A. J. HUGHES, *C. E.*,
For Offg. Joint-Secretary to the Government of Bengal
in the P. W. Dept., Irrigation Branch.

Results of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 8th to 14th June 1873.

Month.	Date.	Mean reduced barometer.	THERMOMETER.			Mean dry bulb.	Mean wet bulb.	Computed mean dew-point.	Mean degree of humidity.	WIND.			Rain.	Moon's phases.	GENERAL REMARKS.
			Highest reading.	Lowest reading.	Max. solar radiation.					Prevailing direction.	Max. pressure.	Daily velocity.			
		Inches.	°	°	°	°	°	°			lb	Miles.	In.		
June ...	8th	29·556	95·6	82·0	141·0	88·1	81·1	76·9	0·70	S & S S W	0·6	257·0	...	...	Cirri, cirrocumuli, and cumuli.
	9th	·561	96·2	82·0	145·0	88·5	81·5	77·3	·70	S & S by E	0·3	239·1	...	...	Cirri, cumuli and clear.
	10th	·554	97·0	82·0	147·0	89·1	81·9	77·6	·70	S by E & S S E	0·4	234·9	...	...	Clear, cumuli and cirri.
	11th	·478	95·4	83·0	140·2	88·4	82·0	78·2	·73	S S E & S E	...	179·6	...	○	Stratoni, cumuli and cirri. Lightning on N. E. between 7 and 8 P.M.
	12th	·415	98·7	83·5	144·0	89·0	82·5	78·6	·72	S E & E by N	...	120·8	...	...	Cirri, stratoni, and cumuli. Thunder at 4½ P.M. Lightning on S. W. from 8 to 10 P.M. Drizzled at 5½ A.M., 3½ and 4½ P.M.
	13th	·424	98·7	78·0	136·5	85·9	80·1	76·0	·73	S E & W	9·0	102·1	1·64	...	Stratoni, cirri, overcast. High wind between 3¾ and 4½ P.M. Thunder and lightning between 4 and 5 P.M. Rain at 4, 5 and 7 P.M.
	14th	·462	92·9	78·5	138·2	83·6	79·7	77·0	·81	W S W & variable.	4·3	166·9	0·86	...	Overcast and cumuli. High wind from 5¼ to 5¾ P.M., Thunder between 2 and 3 A.M., and from 4 to 5½ P.M. Lightning between 2 and 3 A.M. and from 5½ to 10 P.M. Rain at 2½ A.M., and from 5½ to 8 P.M.

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from the twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants. The figures in Column 10 represent the humidity of the air, the complete saturation of which being taken at unity. The receiver of the lower rain gauge is 1½ feet, and that of the anemometer 70 feet 10 inches above the level of the ground. The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

	°
The extreme variation of temperature during the past seven days ...	20·7
The max. temperature during the past seven days ...	98·7
The max. temperature during the corresponding period of the past year ...	95·5
The mean humidity during the past seven days ...	0·73
The mean humidity during the corresponding period of the past year ...	0·81
	Inches.
The total fall of rain from 8th to 14th ... by lower rain gauge ...	2·50
The total fall of rain from 8th to 14th ... by anemometer gauge ...	1·97
Ditto ditto ditto, average of nineteen previous years ...	4·09
Ditto ditto between the 1st January and the 14th June ...	9·73
Ditto ditto ditto, average of nineteen previous years ...	17·61

GOPEENAUTH SEN,
In charge of the Observatory.

The 16*th June* 1873.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY—JUBBULPORE LINE.

Approximate Return of Traffic for Week ended 7th June 1873, on 223½ miles open.

	COACHING TRAFFIC.			MERCHANDISE AND MINERAL TRAFFIC.			Total receipts.
	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.		
		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	5,106	9,002 7 9	825 4 7	89,911 30	23,779 12 6	2,179 16 3	3,005 0 10
Or per mile of railway	......	40 4 6	3 13 10	......	106 6 4	9 15 1	13 8 11
For previous 22 weeks of half-year...	107,385	3,60,792 4 11	33,072 12 7	1,665,453 10	4,78,897 9 6	43,898 18 11	76,971 11 6
Total for 23 weeks ...	112,491	3,69,794 12 8	33,897 17 2	1,755,365 0	5,02,677 6 0	46,078 15 2	79,976 12 4
COMPARISON.							
Total for corresponding week of previous year	5,646	13,817 14 3	1,266 12 10	85,608 30	21,829 14 4	2,001 1 5	3,267 14 3
Per mile of railway corresponding week of previous year	......	61 13 3	5 13 4	......	97 10 9	8 19 1	14 12 5
Total to corresponding date of previous year	125,058	3,83,921 4 5	35,192 15 8	1,680,219 10	4,77,375 12 6	43,759 8 11	78,952 4 7

EAST INDIAN RAILWAY—MAIN LINE.

Approximate Return of Traffic for Week ended 7th June 1873, on 1,280 miles open.

		Rs. A. P.	£. s. d.	Mds. Srs.	Rs. A. P.	£. s. d.	£ s. d.
Total traffic for the week	108,323	1,35,134 13 8	12,387 7 3	773,860 30	3,35,840 1 0	30,786 3 3	43,173 10 6
Or per mile of Railway	......	105 9 2	9 13 7	......	262 6 2	24 1 0	33 14 7
For previous 22 weeks of half-year...	2,510,777	35,83,347 9 7	328,473 10 7	16,901,231 30	84,23,162 9 9	772,123 4 10	1,100,596 15 5
Total for 23 weeks ...	2,619,100	37,18,489 7 3	340,860 17 10	17,675,092 20	87,59,011 10 2	802,909 8 1	1,143,770 5 11
COMPARISON.							
Total for corresponding week of previous year	116,163	1,35,793 9 1	12,447 14 11	636,114 30	2,84,792 7 9	26,105 19 7	38,553 14 6
Per mile of railway corresponding week of previous year	......	106 1 5	9 14 6	......	222 7 11	20 7 11	30 2 5
Total to corresponding date of previous year	2,563,684	37,80,368 10 11	346,533 15 11	15,870,824 0	87,28,230 7 3	8,00,087 15 11	1,146,621 11 10

CALCUTTA AND SOUTH-EASTERN STATE RAILWAY.

Approximate Return of Traffic for Week ended 7th June 1873, on 28 miles open.

		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	5,164	904 0 0	90 8 0	17,722 0	581 0 0	58 2 0	148 10 0
Or per mile of railway	184	32 0 0	3 4 0	633 0	21 0 0	2 2 0	5 6 0
For previous 22 weeks of half-year...	1,53,792½	24,759 0 0	2,475 18 0	429,215 0	13,788 0 0	1,378 16 0	3,854 14 0
Total for 23 weeks ...	1,58,956½	25,663 0 0	2,566 6 0	446,937 0	14,369 0 0	1,436 18 0	4,003 4 0
COMPARISON.							
Total for corresponding week of previous year	4,541	784 12 3	78 9 6	14,642 0	434 5 6	43 8 9	121 18 3
Per mile of railway corresponding week of previous year	162	28 0 5	2 16 1	523 0	15 8 2	1 11 0	4 7 1
Total to corresponding date of previous year	1,63,071½	24,614 13 6	2,461 9 8	390,279 0	12,156 0 0	1,215 12 1	3,677 1 9

NULHATTEE STATE RAILWAY.

Approximate Return of Traffic for Week ended 7th June 1873, on 27¼ miles open.

		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	1,473	1,067 0 0	106 14 0	6,705 0	548 0 0	54 16 0	161 10 0
Or per mile of railway	54	39 0 0	3 18 0	246 0	20 0 0	2 0 0	5 18 0
For previous 22 weeks of half-year	36,420	26,232 0 0	2,623 4 0	148,312 0	11,589 0 0	1,158 18 0	3,782 2 0
Total for 23 weeks ...	37,893	27,299 0 0	2,729 18 0	155,017 0	12,137 0 0	1,213 14 0	3,943 12 0
COMPARISON.							
Total for corresponding week of previous year	......	......	......	......	......	......	......
Per mile of railway corresponding week of previous year	......	......	......	......	......	......	......
Total to corresponding date of previous year	......	......	......	......	......	......	......

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for Week ended 7th June 1873, *on* 156½ *miles open.*

	Coaching Traffic.			Merchandise and Mineral Traffic.			Total receipts.
	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.		
		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	£ s. d.
Total traffic for the week	34,072	23,798 15 6	2,181 11 5	100,649 29	26,398 0 11	2,419 16 8	4,601 7 10
Or per mile of railway	218	152 1 2	13 18 9	643 0	168 10 10	15 9 3	29 8 0
For previous 22 weeks of half-year	751,181	5,59,090 9 2	51,250 2 11	28,34,209 38	9,61,876 12 3	60,650 19 0	1,11,901 1 11
Total for 23 weeks	785,253	5,82,889 8 8	53,431 14 4	29,34,859 27	9,88,274 13 2	63,070 15 5	1,16,502 9 9
COMPARISON.							
Total for corresponding week of previous year	28,495½	17,455 15 5	1,600 2 7	1,44,547 23	21,734 14 1	1,992 7 4	3,592 9 11
Per mile of railway corresponding week of previous year	182	111 8 8	10 4 6	923 0	138 14 1	12 14 7	22 19 1
Total to corresponding date of previous year	749,229	4,71,902 6 8	43,257 14 4	3,221,820 2	6,15,498 12 11	56,420 14 8	99,678 9 0

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No. 26 of 1873.

SUPPLEMENT TO

The Calcutta Gazette.

WEDNESDAY, JUNE 25, 1873.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE *may receive the* SUPPLEMENT *separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.*

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ANNUAL REPORT OF THE ROYAL BOTANICAL GARDENS, CALCUTTA.

RESOLUTION.

STATISTICAL, FINANCIAL, AND AGRICULTURAL DEPT.

Calcutta, the 24th June 1873.

READ—

The Annual Report upon the Botanical Gardens by the Superintendent, Dr. Henderson.

RESOLUTION.—The Lieutenant-Gevernor is much obliged to Dr. Henderson for this interesting report, and he directs that it be published in the Supplement to the Gazette.

2. The Lieutenant-Governor approves Dr. Henderson's plans, some of which are already being carried out, for—

(*a*) planting out trees more thickly in their natural orders (para. 4);
(*b*) reducing the flower-beds and collecting them into one part of the garden (para. 19);
(*c*) renewing and maintaining the beds of herbaceous plants in their natural orders (para. 8);
(*d*) utilising one of the disused buildings for a museum of specimens of woods and fibres (para. 17);
(*e*) teaching the boys employed on the garden both Bengali and English as well as horticulture (para. 7);
(*f*) instituting and recording progress of experimental mahogany plantations in the several jail gardens of Bengal (para. 12);
(*g*) preparing a new catalogue of the trees or plants in the garden (para. 15);

(*h*) paying special attention to the cultivation and propagation of plants of economic importance (para. 9);

(*i*) maintaining at Rungbee nurseries of trees and plants which will not grow in Calcutta, but which are wanted in the hills.

3. The Lieutenant-Governor fears that he cannot hold out hopes of being able to sanction at present additional buildings in the garden; the new house for the Curator cost a good deal of money.

4. The school for young gardeners shall receive from the Lieutenant-Governor such support as Dr. Henderson may require for it. It is creditable to the teaching of the garden boys in past years that two efficient plant collectors were found among the garden boys at a day's notice for the Andamans.

5. The account of the progress of the ipecacuanha experiments is satisfactory so far as it goes; the size of the roots of plants which do not flourish well above ground is encouraging. Mr. Jaffrey's success in propagating ipecacuanha cuttings has been considerable; and the Lieutenant-Governor hopes that the varieties or species which succeed best in the open may be very carefully watched.

6. The list of plants supplied from the gardens to Government officers in Bengal (Appendix F) seems small; the attention of officers in charge of jail gardens will be drawn to Dr. Henderson's readiness to supply, as far as he can, plants and seeds for use in Government gardens.

ORDERED that copies of Dr. Henderson's report and enclosure, with copies of the Resolution thereon, be submitted to the Government of India in the Agriculture, Revenue, Commerce Department; forwarded to the Superintendent,* Botanical Gardens; and to the Inspector-General of Jails with reference to paragraph 6.

By order of the Lieutenant-Governor of Bengal,

C. BERNARD,

Offg. Secy. to the Govt. of Bengal.

No. 30, dated Rungbee, the 31st May 1873.

From—DR. GEO. HENDERSON, Offg. Supdt., Royal Botanical Gardens, Calcutta,

To—The Secretary to the Government of Bengal.

I HAVE the honor to submit the annual report on the Royal Botanical Gardens, Calcutta, for the official year ending 31st March 1873.

Changes amongst officials.

2. Dr. King was obliged to take sick leave to England in August last, and for some time before my arrival on 16th December Dr. Cayley held charge. Mr. Scott, the Curator, left in November to investigate the disease affecting the opium crop, and has been engaged on that duty ever since. Mr. Stirling, the Second Gardener, left in July, and until Mr. Joseph Lister, from the Edinburgh Botanic Garden (who is now appointed second gardener), arrived with me from England, in the middle of December, the garden had been nearly two months without a European gardener, and was not improved in consequence.

Visitors.

3. During January, February, and March, I endeavoured to estimate the number of visitors, and although only 1,000 names were entered in the books during that time, I have reason to believe, from having the numbers actually counted on several occasions, that the actual number was not under 1,500 each month of the cold weather. On one or two occasions I have had reason to complain of the conduct of visitors in carrying off or mutilating valuable plants, and threatening violence to the native officials when remonstrated with.

The Garden.

4. The general condition of the garden is still rather unsatisfactory, and will continue to be so for some years, until the trees planted out after the cyclone begin to give shade and look ornamental. It was a grand idea of Dr. Anderson's to take advantage of the

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* With 50 spare copies.

clean sweep made by the cyclone of most of the trees in the garden to replant the whole area as a gigantic arboretum, with all the trees arranged in botanical order; but unfortunately most of the trees were planted in open instead of dense clumps, to shade and protect each other as well as to keep down the rank grasses: the result is that a great many trees are not thriving, and a large number are dead or dying. During the past year a good deal of manure has been given to them, but this, I fear, will only make the grass grow more luxuriantly. During next rainy season as many trees as possible will be planted out in their natural orders to act as nurses for the others; for until shade is obtained few of the trees will thrive, and the grass cannot be kept in check. Most of the grasses which give trouble dislike shade.

Roads.

5. The roads are in many places much in need of thorough repair. It is at times extremely difficult, owing to their great extent, to keep the walks and drives in creditable order. The existing roads appear to me to be quite numerous enough for every purpose, and I consider that it will be a great mistake to lay out any more, as was proposed; but if that is done, some of those now existing might be abandoned, or be made into grass walks.

Buildings.

6. The new two-storey house for the Curator has been completed, but the accommodation for the second gardener is very insufficient, being an old, dilapidated one-storey building. All dwelling-houses in the garden ought to be two-storey, and the ground floor should be raised three or four feet off the ground, for in the rainy season the whole garden is apt to be flooded. The building in which the herbarium and library are has been put in repair, and at present is in very good order. The river has not done much damage to its banks during the past year. I think something might be done to prevent its encroachments by planting trees along the banks at certain spots. The *Populus Euphratica* may answer for this purpose if it will grow in Calcutta. I have got some plants of it from the Punjab. It is only at certain points where the banks are attacked by the river, and it often happens that a very small obstacle, if put in just at the right place and time, will prevent damage. The sluices are not in good repair, and many of them are quite useless in their present condition. One great want of the garden is a large glass-roofed propagating house, with at least two compartments, and with flues to give bottom heat when required. Without a house of this description it is almost impossible to multiply by cuttings such plants as ipecacuanha; and many plants arriving in wardian cases, and in a sickly state, die for want of nursing in such an artificial climate as a propagating house would afford. When new plant sheds require to be built, I think they might be made a little more ornamental than the present ones are without much increase in the cost. The glass fern-house is now much too small for the requirements of the garden; it is impossible to keep up a large collection of ferns without a house of this sort. Glass-roofed houses are now made in England so cheaply of iron, that I think it will be better to get them out from home when any others are to be constructed. The cheap orchid-house of wicker-work (jute stems) designed by Mr. Scott answers the purpose pretty well: its only fault is that it is not ornamental, and it is very temporary. I think this also might be replaced by a house of thick frosted glass, which would have the additional advantage of preventing valuable orchids being stolen. There are great facilities at Calcutta for making a large collection of Indian orchids, and they and the ferns seem to excite more interest than any other plants both amongst Native and European visitors. The contents of both the fern and orchid houses suffered considerably by Mr. Scott's absence, when there was no European gardener to look after them.

Garden establishment.

7. The garden establishment, with the exception of five or six good men, I look on as hopelessly bad; the men are all coolies, who receive very small pay and do very little and very bad work, in which of course they do not take the very slightest interest, and when found fault with, or made to work properly, they at once take their discharge. I have endeavoured to remedy this state of affairs by commencing a garden school for the 75 boys employed in the garden, and whose parents are

mostly garden employés. These boys only want education, careful training, and a prospect of fairly good pay, to become excellent workmen in the course of three or four years. All these boys come to the office for an hour and a half in the heat of the day, when all out-door work is usually suspended; they are taught Bengali for an hour, and the other half hour is devoted to teaching them enough English to enable them to read or write plant labels. Those who show intelligence get more pay, and are put under some of the more active and intelligent native gardeners in order to learn their business. Formerly a staff of collectors used to be kept up for sending to all parts of India, and even beyond our frontiers, to collect and prepare specimens for the herbarium and for distribution to other herbaria. I have commenced to train collectors again, but find that Bengalees are very averse to leave home, and do not like to rough it in the jungle. I have been told that a garden school was formerly established, and was given up because the boys, on getting instructed, got employment as gardeners on better pay elsewhere. I should consider this an additional reason for keeping up the school, and the services of the best men can always be retained by an offer of sufficient pay.

Natural arrangement of plants.

8. Some years ago Dr. Anderson laid out three or four acres of ground near the large *Banyan* tree with all the herbaceous plants in the garden, placing them all according to the natural arrangement in parellel beds six feet wide with two feet grass walks between the beds; but owing to the want of shade and the necessity of renewing most of the plants every year, a large number being annuals, this ground had got neglected and overgrown with jungle. I have again had it laid out, and in addition to the herbaceous plants, I have put in at least one specimen of every plant in the garden, and believe that the shade afforded by the shrubs and trees will prevent the others being again killed by the sun or choked by grass; and the number of perennial plants, forming landmarks as it were, enables the arrangement to be more easily kept up. If this ground were well kept it would probably be the most attractive part of the garden, and certainly the most instructive to the students.

Economic garden.

9. An Indian botanic garden ought to have some space devoted to plants of economic importance which are grown in the country, as well as all such plants from other countries which can be got to grow here. I have had a commencement made to form such a garden, and it will be laid out during the rains; the difficulty is with native agency in keeping it up, for most of the plants have to be renewed every year, just as in the case of the herbaceous garden. A great variety of seed of fibre-yielding plants has lately been received from the commission appointed to inquire into the jute trade. This seed has all germinated, and when the plants flower and can be identified, they may yield some interesting information.

Agricultural experiments.

10. A few agricultural experiments have been made on a small scale, but the model (or more properly experimental) farms are more suitable for all such experiments, which require to be carried out on a larger scale than we have room for in the Botanic Garden; moreover, these experiments require European officials to devote their whole time and attention to them.

Ipecacuanha.

11. The attempt to introduce the cultivation of ipecacuanha into India is one of the most important works now in hand. I have given a concise account of all that has been done up to date as an appendix to this report.

Mahogany.

12. There is some prospect of the mahogany trees about Calcutta seeding freely in the course of a few years. During the past year nearly two thousand plants were raised from seed produced at Calcutta and Barrackpore in the spring of 1872, and about 500 seeds were got in 1873. Almost the only mahogany tree in the garden which has ever seeded is an old damaged one, half of it having been blown down by the cyclone; and as it is possible that the injury it received has something to do with its seeding, I have ringed the bark on several large side branches of the other trees, to see if that will make them seed. The effect will not be known

until March 1874, but already it has had the effect of making them shed their old leaves and open their buds fully a fortnight earlier than any of the other trees except the damaged one which usually produces seed. About 1,000 layers of mahogany have been rooted; these will probably never be of use for timber, but they are likely to seed much sooner than seedling plants. I have tried to raise plants from cuttings, and although these make shoots, and some appear to root, most of them die after a time. Another attempt will be made in the rainy season with a better hope of success. Mahogany seed stands carriage so badly that our only hope of raising large plantations of it is to find out some locality in India where it will seed freely; and with the view of discovering this a large quantity of young plants, in sets of 50, has been lately distributed to jail gardens in various parts of the province, a careful record being preserved of the sites where these trees have been planted.

Jalap.

13. In December I brought out from England some plants of *Exogorum Purga*, which yields the jalap of commerce. It has hardly as yet had a fair trial, but it does not appear to thrive in Calcutta; it will be tried in Sikkim.

Hill Garden in Sikkim.

14. The climate and soil of the Calcutta gardens are unsuitable for so many plants which it is desirable to introduce into the Himalayas, that for some years a small branch nursery garden has been kept up in Sikkim at the cinchona plantations. I should like to see these nurseries very much extended, as there is now a large European population of tea-planters in Sikkim, and as a rule all are anxious to try new plants. A number of plants (250) of the European sweet chestnut have been raised, and it is expected that before the end of this year a very large number of plants will be got up for distribution, Dr. Oldham, on his way home on leave, having kindly undertaken to get seed for me in Italy. Coffee is also being tried, and succeeds very well. Many tea-planters now grow coffee for home use, but it will not pay so well as tea I fear.

Catalogue of plants.

15. The catalogue of plants in the Calcutta garden, published some years ago by the late Dr. Anderson, is now out of print; and in February last, when laying out the old herbaceous ground, and taking stock as it were of all the plants in the garden, I had a rough but complete list made out, which will be printed very soon. Without some list of the kind it is impossible to exchange plants and seeds with other similar institutions.

Labels.

16. There is perhaps nothing more important in such a garden as the Calcutta one than to have all the trees properly labelled. Every description of label seems to have been tried, but I do not think that a satisfactory one has as yet been discovered. Stamped zinc labels are permanent, but illegible: so I have had them painted as well as stamped. But the painting is a very slow process, and eight men kept at work for several months hardly got over half the garden. I now propose to try printed labels pasted on the trees and covered over with some waterproof varnish.

Herbarium and Library.

17. The herbarium, under Mr. Kurz's able management, is now in excellent order. The library still requires a great deal to be done in binding periodicals and books. The rooms in which the books are kept, being on the ground floor, are rather damp, and before many years it will be necessary to build a more suitable house for the herbarium and library. A museum is wanted very much for specimens of wood, &c., &c., which cannot be stored in the herbarium. I think some of the numerous old buildings in the garden might be utilized for this purpose until a sufficient collection is made to deserve a separate building.

Machinery.

18. I think there should be a standing order in the garden that no more pumps, mowing machine, or other English machinery be ordered until a much more intelligent staff of workmen has been got. Almost without a single exception every machine which has been hitherto bought has in a few months been damaged and then put aside to rust. Mr. Lister has once more had all the mowing machines put in thorough order, and is determined to make them be properly worked and taken care of if it is possible to do so.

Flower Garden.

19. I think it is questionable whether so much money and labour should be expended on the ribbon borders; they are very expensive. At the best they are not particularly ornamental, and unless kept in the most perfect order, they are positively hideous. I think there are at present far too many flower-beds, and it would add to the attractiveness of the garden if we adopted the Kew plan of having a limited area kept up in the best of order, with one road devoted to flower-beds, and all of it a model of good gardening, outside this part the ground being kept simply as a park and arboretum.

Nurseries.

20. The nurseries have lately been removed from the centre of the garden to the extreme end: this I think is a mistake. They should be nearly in the centre of the garden, and not far from the river-bank; they can be concealed very easily by hedges or shrubberies. As the distribution of plants to the general public, which some years ago was stopped, is to be again commenced, the nursery department will have to be largely extended. I lately inspected several native nursery gardens near Calcutta, to see what private enterprise has done to supply the country with young plants; but anything more primitive than the arrangements I saw it is impossible to conceive.

21. The statements appended show that 860 packets of seeds, 2,302 plants in cases, and 2,891 plants in pots, have been sent out during the year.

22. The receipts amount to 2,415 packets of seeds and 1,404 plants. The interchange of seeds and plants was very much interfered with during the past year owing to the changes amongst the European officials. Very few additions have been made to the herbarium during the year. In March I sent two very active and intelligent young native gardeners to the Andaman and Nicobar Islands; they brought back specimens of everything they came across, but unfortunately very few plants were then in flower.

23. Besides the interchange of useful and rare plants with other countries, and the distribution of plants and seeds throughout India, I think one of the chief objects (I would even say the chief object) of these gardens, and one which of late has been too often lost sight of, is that they should form the head-quarters of a botanical survey of India. Such a work cannot, however, be undertaken unless the Director of the gardens and the Curators of the herbarium and gardens are allowed to devote themselves to their own proper work. The lectures on botany at the Medical College are a very great tax on the Superintendent, and these, taken along with official reports and correspondence, almost exhaust his time and leave very little uninterrupted leisure for purely scientific work.

24. The following appendices accompany this report:—

A.—Ipecacuanha.
B.—List of additions to the library during the year.
C.—List of contributions to the herbarium during the year.
D.—Plants received during the year.
E.—Seeds received during the year.
F.—Plants distributed during the year
G.—Seeds distributed during the year.

APPENDIX A.

IPECACUANHA.

As the experiments being made to introduce this plant into India are perhaps the most interesting attempts at acclimatization now being made, I think it as well to give a concise history of what has been already done, and the latest results of our experience regarding the plant. The history is a very instructive one, and shows how difficult it is to carry out such an experiment rapidly, nearly eight years having now been occupied in getting up a lot of stock plants, and as yet we have only about 7,000 altogether, half of them minute cuttings. If *ipecacuanha* is ever to succeed in India, I think another year will see a small plantation fairly started. There are evidently several varieties, if not species, of *ipecacuanha* amongst the plants now in the Rungbee nurseries, and I think this gives us additional encouragement to persevere, for it is possible that these varieties may require just as different treatment as the different species of cinchona do, and that although one variety may not answer here, some of the others may. Besides this, plants grown from minute cuttings and reared under glass are much more delicate than those grown from larger cuttings and kept in the open air; and I do not consider that the experiments hitherto made are of much value as showing whether or not the plant will thrive in the Bengal Presidency. It is one of the slowest growing plants I know, and one of the most difficult to propagate by cuttings. I have seen some cuttings of the stem remain quite fresh for over two months without an attempt at making roots. Root cuttings strike much more readily, but even they sometimes become quite stagnant, and will not put out shoots unless they are of pretty large size and get a brisk bottom heat. From all I hear of the soil and climate of the Andaman Islands, I believe the plant will thrive there, and I have offered to send General Stewart some plants for trial. But to return to the history of its introduction.

In 1866 Dr. King brought a plant from Kew which had been originally got from Brazil; two years later, namely in

1868—This plant had been increased by cuttings to nine.

1869—Only nine plants still, but Dr. Anderson, who had gone to England, was endeavouring to get more, and succeeded in obtaining a number in Edinburgh.

1870—Mr. Clarke reported that the plants were as at last report; every thing had been done for them, but they continued unhealthy and would not grow. Some sent to Sikkim were doing better.

1871—The plants in Calcutta are reported just as before.

1872—At the beginning of the official year there were five plants in Sikkim and seven in Calcutta, and those in Sikkim were multiplied by root cuttings to about 300 by the end of August.

The following memorandum by Mr. Gammie, on the introduction of *ipecacuanha* to the Sikkim Himalayas, shows what has already been done. Mr. Gammie says:—

"Three plants of *ipecacuanha* were received at Rungbee from the Calcutta Botanical Gardens in 1868. These formed part of the produce of the single plant brought out by Dr. King from the Royal Gardens, Kew, in the early part of 1866. One of the three died soon after arrival at Rungbee, and on the 31st of March 1869 the remaining two had been increased to five rooted plants and one cutting. The cutting afterwards died. On the same date in 1870 there were five rooted plants and seven cuttings, and agani the cuttings were unfortunate, for a drunken washerman (dhobie) fell through the glass frame in which they were placed and completely destroyed them. We then determined not to cut the tops of the plants again, as we found that after cutting the plants were a very long time in throwing out fresh shoots, and even then most sparingly. We waited patiently to allow the plants to form a good supply of roots, and in consequence of this determination, and the dhobie-accident, we had five plants only on the 31st March 1871. In the summer of that year we partially stripped the plants of their roots, which we cut into very small pieces and treated as ordinary cuttings. By this method our stock of plants and cuttings was increased to about 300 by the end of August 1871. Since then the following four consignments of plants have been received at Rungbee from the Edinburgh Botanical Gardens and Messrs. Lawson and Sons, the Edinburgh nurserymen:—

"September 1871	11
"March 1872	247
"December 1872	112
"January 1873	10
"Total	380, the number that

reached Rungbee alive. On the 1st January 1873 the total number of plants and cuttings was 3,066."

On 31st March last they amounted to no less than 6,719 in Sikkim, and about 500 in Calcutta. In December last I brought out 128 plants from Kew and Edinburgh, and as the weather was then too cold to send them to Sikkim, I decided to see if they could be multiplied in Calcutta, notwithstanding that all former attempts made there had failed, as stated in paragraph 5 of the Annual Report for 1871-72. Mr. Lister, the second gardener, just arrived from the Edinburgh gardens, where he had seen the plant propagated, set to work and made cuttings both of the root and stem, and by the end of March about 500 new plants had been produced, and most of the 128 original ones were sent *by post* to Sikkim, where they arrived as fresh and healthy as the day they left Calcutta. The roots, when packed in slightly moist earth, stand carriage remarkably well. I brought out some roots from England packed in this way, and most of them arrived in good order. I do not like Mr. McNab's method of packing in sphagnum moss; I think moist earth infinitely preferable. Besides trying to multiply them, I planted out a number in Calcutta under every variety of conditions,—some in the open, some under moderate shade, and others under dense shade. Two plants fully exposed were killed by the sun; all those under shade appear to thrive, but have met with many accidents. Single plants have been placed out at five different points along the bottom of the Rungbee valley; but with the exception of one plant under shade of *cinchona*, near Mr. Biermann's house, none seem to thrive, and even the successful one is no better than those planted under shade in Calcutta. At Bamunpokree in the Terai they are no better, with one exception. An experiment in planting out is now, at my suggestion, being tried on a much larger scale at Rungbee, with several hundred plants in beds of leaf mould very carefully prepared. Until the rains these are being shaded with grass matting, but as soon as the rains set in, the shades will be gradually removed. Mr. Jaffrey has not only succeeded in getting leaves planted as cuttings to make roots, but in ten months he has got these rooted leaves to produce as many as four shoots from half an inch to an inch and a half long.

The plants in Sikkim are located about 3,000 feet above the sea, in glass-covered frames, and planted in a mass of well-drained leaf mould, but without bottom heat, which is only used when cuttings are being struck. Nothing could be more healthy in appearance than the young plants in the frames. Their leaves are of a dark green colour, and without a single spot or blemish; but the plant is a slow-growing one, and we have evidently not yet discovered the conditions under which it will thrive in the open air. I believe it requires a moist, hot, equable climate, with a soil porous and well drained,—in fact resembling leaf mould. Mr. Gammie thinks they will not do, as recommended by Mr. Kurz, in places subject to periodical inundations. I have asked Mr. Kurz how he came to recommend such situations, and he has given me the following note:—

Memorandum by Mr. Kurz.

"It is right to state, in explanation to Mr. Gammie's remark about my statement regarding the *ipecacuanha* plant, that I have based my deductions regarding its requirements upon Professor Grisebach's recent work, and upon his review of Weddell's paper on the *ipecacuanha*.

"Dr. Grisebach states therein (Bericht uber die Leistungen in der Pflanzeugeographie für 1849, p. 57,) that the *ipecacuanha* grows in the dense shade of certain palms and trees on marshy grounds (quellichte gruende), whereas on a perusal of Weddell's French original I find it distinctly stated that the plant grows chiefly on firm grounds surrounding these little marshes (surtout sur la terre ferme qui entoure ces petits marais).

"I think that Weddell's excellent paper (Note sur le Cephaëlis Ipecacuanha, son mode de végétation, etc., in Annales des Sciences Naturelles, Série 3, XI, 193-202), which I could not consult when I formed my views on the plant, should leave no doubt as to the real requirements of the *ipecacuanha* plant (l. c. p. 197-198)."

I have read the excellent paper of Mr. Weddell which Mr. Kurz refers to, and as it is one of the most important documents on the subject we have yet got, I give a translation of it. It is published in the Annales des Sciences Naturelles, Troisième Série Botanique, page 193, and is entitled Note sur le Cephaëlis Ipecacuanha, son mode de végétation, et son exploitation dans la Province de Matto Grosso, en Brazil. One of the most important piece of information contained in this paper is that in three or four years after *ipecacuanha* roots have been dug up, they are reproduced from the fragments of root left in the ground; so that a crop is got every three or four years without any replanting. There is another encouraging fact which Mr. Gammie has just brought to my notice, namely, that some of the plants which have very little foliage, and do not seem to be thriving, are found, on being dug up, to have made a large quantity of roots; and as what is generally called the root of *ipecacuanha* is in reality an underground stem, it probably performed, in part at least, the function of foliage, particularly where grown in loose leaf mould, which is freely permeated by air, as all our plants have hitherto been grown.

G. HENDERSON.

Translation of Mr. Weddell's Paper on the Cephaëlis Ipecacuanha.

THE medicine called by the name of *ipecacuanha* is known to be the product of several species of plants. The same name is generally given to all emetic roots, whatever may be the natural family to which they belong. The product of this name, which is now commonly used in Europe, is derived from a plant of the *rubiacea* family, the *cephaëlis ipecacuanha*. Mr. A. Richard has given it the name of annulated (*annelé*) *ipecacuanha*. The striated (*strié*) *ipecacuanha* of the same author (very rare in pharmacy in our day) is produced by the *psychokya emitica* of Mutis. The last is indigenous in New Granada, the *cephaëlis* on the contrary is peculiar to Brazil. It is this last which I have had special means of observing, and of which I shall here endeavour to give some account.

Several points in the history of this plant are so generally known that it is useless for me to go over them, but I shall dwell on those which are only treated of in little known works, and I shall endeavour principally to make known the geographical distribution of the plants, the manner of gathering the roots, and the means used by Nature for favoring its reproduction. This part of the question has appeared to me so much the more interesting as its solution is a complete answer to the fears that have been entertained of this useful plant becoming extinct.

The word *ipecacuanha* appeared in Europe with the works of Pison and Marcgraff, and seems to be the name by which the *cephaëlis* was known in that part of Brazil where the Portuguese first learnt to make use of it. Still it may be, as some accounts lead one to believe, that it has been with *ipecacuanha* as with Jesuit's bark, which has usurped a name which had been created for another plant. The term *ipecacuanha* is, in short, in no part of Brazil applied to the *cephaëlis*, which is now known everywhere by the name of *poaya*, a term which, according to M. Auguste St. Hilaire, would be a corruption of the Indian words "y cipo ayaca," which means "liane-à-panier." This etymology is so much the more probable, as the European Portuguese still often call *ipecacuanha* by the name of *cipo* or *siane*. One of the best emetic roots of Brazil is indeed the product of a little plant which is remarkable for the brilliancy of its flowers, and it is not at all impossible that the discovery of this plant may have preceded that of other species of *poaya*, and given its name to them.

The first knowledge of *ipecacuanha* appears, according to the general assent of authors, to go back to the Indians, who preceded the Portuguese in Brazil; and here, as in other circumstances, tradition has it that man was preceded by animals. There are wolves which, having indigestion, had the idea of curing themselves by chewing the roots of the *cephaëlis*, and have afterwards been imitated by the Indians. The tale will recall that of the falcon of New Granada drawing the attention of the aborigines of the country to the famous cure for poisoning known as *guaco*, as well as that of the lions of Loxa curing themselves of fever with the water of the ponds where the stems of *cinchona* had been macerated.

As to the introduction of *ipecacuanha* into European pharmacy, it only dated from the end of the seventeenth century, about fifty years after the publication of Pison's work, entitled "De Medicina Brasiliensis." Up to this time, though the most important properties of this root were known, the profession hesitated to make use of it; and even a little latter some accidents, following the inconsiderate use of it, were the cause of it falling almost completely into disuse. It was only when a French merchant, named Grenier, had brought to Paris a quantity sufficient for making the following experiments, that all prejudice disappeared, and the "root of Brazil" took that place in the medical world which it deserved.

The physician Adrien Helvetius, with whom Grenier had united to facilitate the adoption of this remedy, induced no doubt by the example of the brilliant fortune which *cinchona* had just procured to the Englishman Talbot, succeeded in his turn in interesting Louis XIV in the fate of *ipecacuanha*.

It was in consequence of the experiments made by his order in the Hotel Dieu of Paris that the advantage to be derived from the use of *ipecacuanha* in certain diseases, and specially in diarrhœa and dysentery, was finally proved; and the remedy, which up to that time had been kept more or less secret, was from that moment, thanks to the munificence of the great king, made publicly known.

I have said that tradition refused to Europeans the merit of discovering *ipecacuanha*, but none can ever contest that of their having immensely extended the limits of the region where it is gathered. I will pass over here in silence the first steps taken towards these discoveries to refer at once to those of later years.

The most recent works which treat of *ipecacuanha* only indicate its existence in those parts of the Brazilian empire which adjoin more or less immediately the Atlantic Ocean; for example, the provinces of Para, Maranhao, Pernambuco, Bahia, Espirito Santo, Minas, Geraes, Rio de Janeiro, and Sao Paulo, in all of which on a larger or smaller scale the precious root is gathered. Thus defined, the region of *cephaëlis* would have natural enough limits, since, commencing at the equinoctial line and going southwards it stops almost exactly at the tropic, and on the other it appears confined by the Atlantic on the east and to a great extent on the west by the high lands of the interior. These limits, however, are happily entirely hypothetical. Now, indeed, we know that the region of *cephaëlis ipecacuanha*, far from being limited to the comparatively narrow strip along the sea-shore, possesses, on the contrary, a much wider range of longitude than of latitude, since it extends to about 25 degrees into the interior of the continent, or to 50 degrees longitude west of Paris, that is to say, almost to the confines of Bolivia. Credible observers have even assured me that the plant has been discovered in the forests of this Republic in the province of Chiquitos, but I have not myself observed it beyond the Brazilian frontier. The fertility of the newly discovered district is after all such that they alone are almost sufficient to supply the European market.

From the little that I have said it will be seen that almost the whole of the new addition made to the field of production of *ipecacuanha* is to be found in the immense province of Matto Grosso. It was in the year 1824 that the fitst plants of *cephaëlis* were discovered in this part of Brazil in the neighbourhood of Villa Maria, a little village situated on the left bank of the Rio Paraguay. They were recognised by a Doctor of Matto Grosso, who accompanied the "Guarda-Mor" sent to test the auriferous sands of Rio Cabaçal, but for a long time no one thought of making the plant an object of commerce, and the utmost expected was that its use as a medicine should spread to a small extent in the country. Later, towards the year 1830, an old forester named Motta, who had acted as guide to the expedition, and who himself gave me the details, recognised the same root in the forests which bound Rio Suputoba, and drew the attention of a merchant of Villa Maria to it. The latter, struck with the similarity between this root and that which was gathered with so much profit in the sea-bound provinces, sent samples of it to Rio de Janeiro, and from that moment the collection of it commenced.

The forests in which the *cephaëlis* thrives have a peculiar character, which it is difficult to forget; this is due to the presence of several remarkable vegetables. Almost all those of Matto Grosso are situated in the valley of the Paraguay, above Villa Maria, or even in those of the affluents which it receives at this part of its course. In order to be able to judge better of the parts inhabited by such an interesting plant, I went myself to one of these forests situated on the Rio Cabaçal. Six days of navigation through a bower of verdure brought me to the end of my journey. I had quitted the Rio Cabaçal some hours previously by a little river which flows into it, the Rio Vermelbo, on the banks of which a little (*hangar*) of leaves of the palm indicaus that the commencement of the domains of the *cephaëlis* is reached. This place has received the name of Port de Rueno; it was more than a year since any one had visited it.

The woods which immediately adjoin the river are situated too low for the *cephaëlis* to succeed there, and when the river is in flood, the soil is covered to a very considerable distance from the banks, a state of matters which often lasts during several months of the year. The growth of other vegetables is, however, only the more active; and when I entered on the path which leads towards the interior, I soon found myself in the heart of a vegetation of the most grievous description, which, without the large knives with which my Indians were armed, would have formed a barrier difficult to break through. The bamboos in particular have here in this part of the forest formed such a compact network that I almost became entangled in it like a fly in a spider's web. However at about a mile and a half from the river-banks the ground begins sensibly to rise; the soil now consisted only of sand, slightly humid and impregnated, if I may so speak, with the detritus of vegetables which have replaced its surface. Some new features of vegetation showed at last that I had reached a botanical region rather different from that which I had just quitted. Several species of palms, with which I had not met up to that point, arrested my attention, particularly *L'Euterpe oleraciæ* or *Palmeto. molle*, with a slim, tall trunk; and the *Enocarpus Bacaba* with distichous leaves were there conspicuous, and entirely replaced the *Cocos Capitata*, which had accompanied me until then. Still further, in places where the depressed surface allows some affluent source of the river to filtrate, there appeared in the midst of *Mauritia* and tree ferns the *Triartea exorrhiza* or *Catisar*, very striking on account of the disposition of the aërial roots, which its trunk produces at fully 2 metres (6 feet) above ground, and which descend obliquely to it, forming so many natural supports upon which the tree rests. It is specially in the firm ground that surround these little marshes, and in the perpetual shade of those other trees which grow in company with the vegetables, that I have just named that the *cephaëlis* delights. It is a small shrub, with a stem plain and bare towards the base, where it is often bent and more or less radical; its leaves, generally close to the top of the plant, give it some resemblance to the daphnes of our woods.

The *cephaëlis* rarely grows singly; it is much more common to find a number of plants clustered in the form of a loose round bush, which the collectors of *poaya*, or poayeros (as they are called), know by the name of *redoleros*.

In gathering the root of the *cephaëlis* the poayero seizes with one hand, and, if possible at one time, all the stems which form a bunch, whilst with the other he drives, somewhat obliquely, into the soil and under the base a strong-pointed stick called saracoa, with which he afterwards makes a see-saw movement. The mass of earth which imprisons the roots is thus raised, and when the operation has been dexterously made, all the roots attached to the bunch are at once obtained and almost without fracture. The poayero then separates the part used, shakes it lightly free from the adherent earth, and puts it in a large bag, which he carries for this purpose suspended at his side; then he proceeds to attack another clump, and so on. A workman who possesses all the requisite qualities may, under the most favorable circumstances, gather in a day about 15 kilogrammes of *ipecacuanha*, but the harvest of an ordinary laborer seldom exceeds 5 to 6 kilogrammes; some even scarcely collect 3 or 4 in the same space of time. The season also influences considerably the facility for the work.

In the rainy season, the earth being much more easy to till, the operation of gathering goes on much more rapidly, and the root then obtained is not only heavier, but is less fragile than in the dry season. Towards the fall of night the workmen dispersed in the forests, and who are, as I shall be able to say later on, under a unique direction, reassemble at the camp. Each poayero then pours the result of his labours into the hands of a steward, who weighs and spreads it upon hides to dry. The more rapid this last process, so much the more successful is it; and as far as is possible it is carried on in the full blaze of the sun. In favorable weather the root is quite dry at the end of two or three days at the most, always supposing that during the night it is sheltered from the dew. When *ipecacuanha* has been dried slowly, or packed when still somewhat damp, its surface is always more or less mouldy, and it does not break so sharply as when the opposite is the case; nor has it the resinous and roseate appearance which characterise it when it has had all the wished for care.

The *ipecacuanha* harvest continues throughout the whole year; but it generally relaxes a little in the rainy season, because of difficulty often experienced in drying the produce. Many extractors, however, prefer this time of year because of the great facilities for gathering it. Now, as the flowering takes place exactly at this season, that is, about the months of February and March, there is no doubt, as Mr. Martius observes, that the fruit of the plant must suffer, and if Nature had given to the *cephaëlis* only that means of multiplication which it has in common with all plants, the usual mode of collection would have been fatal to it. Happily for humanity it has been otherwise decided. It appeared to me that the *cephaëlis* was much more seldom reproduced by seed than by another process, of which I ought now to speak.

No one is ignorant of the great power of reproduction which exists in the roots of some of our garden plants, particularly in that of the *maclura* and of the *paulowina*. We know that the roots, however small we may cut them, have the faculty of reproducing a new individual from each of the fragments: one may almost compare them, in this respect, to *algæ*, or to certain *polypes*. Well, this is the case to a certain extent with the root of the *cephaëlis;* it is by a true system of cuttings, which the poayero makes in spite of himself at each spot, where he effects the up-rooting of a plant, that the latter reproduces itself. Each fragment which remains accidentally in the ground after the operation is sufficient to renew the plant. The intelligent poayeros of Matto Grosso, who are well aware of this peculiarity, never fail, when they shake the earth off the plants which they have just taken from the ground, to leave intentionally the roots which have been accidentally broken; and most of them are even careful before rising up to rapidly refill the hole caused by the extraction. Hence it is probable enough that this mode of vegetation in round clumps does not belong normally to the *cephaëlis*, but that it is owing to that kind of manipulation to which it is subjected, and which, as we see, far from destroying it, appears, if it is done with a small degree of intelligence, to tend to multiply it all the more.

Still it must not be thought that the *reboisement* of the forest of *ipecacuanha* (if I may be allowed to use the expression in connection with such a small vegetable) takes place year after year. According to the most distinct information I have obtained on this subject, about three or four years must necessarily elapse before a district which has been cleared can be again harvested with equal profit.

The gathering of *ipecacuanha* has just the effect, contrary to what generally takes place in like cases, of submitting the *cephaëlis* to a kind of accidental culture, eminently suited for its preservation, and the circumstances that I have quoted are not the only ones that have contributed to this happy result. Another plays perhaps a no less important part, that is, the burning of the forests. Before this was vigorously practised the ground was so encumbered with the numerous vegetable remains which accumulated there, that not only did the seeds of the *ipecacuanha* not find within their reach suitable soil, but it often even happened that full-grown plants were in time choked. On the other hand the extraction of the root was rendered more difficult owing to the necessity of raising each spongy layer before being able to reach the true soil, owing to the existence of the leaves which are now destroyed. One sometimes sees a forest fire in the *ipecacuanha* region last for several months consecutively.

In conclusion, I may say that when the root is dry, it is broken into smaller fragments shaken in a sieve to separate them from the sand or earth which may still adhere to them, and finally put in boles for convenience of transport. Many of the extractors of Villa Maria construct the boats which are to serve as the means of conveyance in the very forests where the *ipecacuanha* is gathered.

The collection of *ipecacuanha* in the Matto Grosso only commenced, as I have said, ten or twelve years ago, although it was well known before that period. That first collected was sold on the spot at the rate of 2 francs 60 centimes per pound, and in Rio de Janeiro more than double. This high price attracted a numerous population to the forests of the Upper Paraguay, and after a certain time there was such an immense quantity of the drug in the Rio market that nobody would look at it; it was verily a *drug* in the market; instantly its price fell at least a franc.

From 1835 to 1837, 150,000 kilogrammes of *ipecacuanha* were taken from the neighbourhood of Villa Maria; the forests were then occupied by from twelve to fifteen hundred gatherers. Men, women, and children, bond and free, advanced several days' journey into the forest of Paraguay and there spent whole months in uprooting the plant. The average price of the "arrobe," about 14½ kilogrammes, was then from fifty to sixty francs at Villa Maria, and from 78 to 90 francs at Rio de Janeiro.

Afterwards, from the glut in the market, the enterprise was suddenly and almost completely abandoned; then little by little the price mended, and the poayeros gradually returned to the woods. Now that the produce yearly obtained amounts to about 1,000 "arrobes," or 15,000 kilogrammes, its value remains almost stationary. At Villa Maria *ipecacuanha* of good quality brings in about 25 to 30 francs the "arrobe," and conveyed to Rio from 76 to 80 francs.

APPENDIX B.

List of Additions to the Library during the Official Year 1872-73.

Hooker.—Icones Plantarum. Third Ser., Vol. II., Part I.

M. H. Dutrochet.—Memoires Anatomique et Physiologique des Végétaux, &c. 2 Vols., with Atlas.

F. T. Kützing.—Species Algarum. 1 Vol.
Botta.—Notice sur un Voyage dans l'Arabie Heureuse. 1 Vol.
Tulasne.—Monographia Monimiacearum. 1 Vol.
Fée.—Iconographie des Espéces Nouvelles des Fougéres (6th to 10th mem. in 2 parts).
De Vriese et P. Harting.—Monographie des Marattiacées, 1 part.
Ch. D. Badham.—The Esculent Funguses of England. 1 Vol.
H. Schacht.—Lehrbuch der Anatomie u. Physiologie der Gewächse, 2 parts.
L. Rabenhorst.—Flora Europæa Algarum, 3 parts.
L. Reichenbach.—Icones Plantarum Rariorum, &c. 10 Vols.
C. A. Agardh—Species Algarum. Vols. I and II, Part I.
J. Macquart.—Les Plantes Herbacées d'Europe et leurs Insects. 3 Vols.
J. G. Agardh.—Species, Genera, et Ordines Algarum. 2 Vols., in 5 parts.
Bonplandia.—Year 1853 to 1863. 10 Vols.
J. A. Chatin.—Anatomie comparée des Végétaux, 13 parts.
E. Cosson et Durien de Maisonneuve.—Flore d'Algérie. 2 Vols., with Atlas.
Th. M. Fries.—Lichenes Arctoi Europæ Groenlandiaeque Hactenus Cogniti. 1 Vol.
J. Bateman.—A Second Century of Archidaceous Plants. 1 Vol.
J. Payer.—Botanique Cryptogamique. 1 Vol.
H. Baillon.—Adansonia. Vols. II to IV, incl.
E. Boissier.—Centuria Euphorbiarum.
M. Delile.—Nouveaux eristaux parmiles grains de pollen du laladium bicolor. (Pamphiet.)
F. W. Klatt.—Revisio Jeidearum. (Pamphlet.)
I. Mueller.—Monographie des Resedacées. 1 Vol.
A. Grips.—Note sur le Développement de la Graine du Ricin. (Pamphlet.)
A. Spring.—Monographie des Lycopodiacées. Part I only.
M. H. Dutrochet.—Recherches sur l'Accroissement des Végétaux.
M. de Mirbel.—Nouvelles Notes sur le Cambium. (Pamphlet.)
M. Decaisne.—Planfes de l'Arabie Heureuse. (Pamphlet.)
M. Decaisne.—Memoire sur le Développement du pollen de l'Ovule, &c. (Pamphlet.)
M. Payen.—Memoire sur l'Amidon, la Dextrine et la Diastase. (Pamphlet.)
Raffeneau-Delile.—Disertation sur les Effets d'un Poison de Java.
A. Jussien.—Memoire sur le Groupe des Méliacéexs. (Pamphlet.)
Dutrochet.—Observations sur la Forme et la Structure Primitives des Embryons Végétaux. (Pamphlet.)
J. Decaisne.—Recherches sur la Garance, &c. (Pamphlet.)
F. Dozy et J. H. Molkenboer.—Muscorum Frondosorum Novæ Species ex Archipelago, Indico, &c.
Dutrochet.—Observations sur les Tiges des Végétaux. (Pamphlet.)
A. de Jussien.—Memoire sur les Embryons Monocotylédonés. (Pamphlet.)
P. Duchartee.—Observations sur la Fleur de l'Oenothera Suaveolens. (Pamphlet.)
J. E. Plauchon.—Memoire sur la Famille des Simaroubacées. (Pamphlet.)
F. Marins Barneoud.—Memoire sur le Développement de l'Ovule dans le Renonculacées et der Brolarnées. (Pamphlet.)
A. Gris.—Observations sur la Fleur des Marautées. (Pamphlet.)
E. Prillieux.—Observations sur la Dehiscence du fruit des Orchidees. (Pamphlet.)
A. Braun.—De Algis Unicellularibus. 1 Vol.
M. G. Thuret.—Deuxieme Note sur la Fécundation des Fucacées. (Pamphlet.)
A. Trecul.—Nouvelles Observations relatives a l'Accroissement en Diamétre des Arbres de Cotylédonés. (Pamphlet.)
Trecul.—Memoire sur la Formation des Fenilles. (Pamphlet.)
A. Moquin-Tandon.—Chenopodearum Monographica Enumeratia. 1 Vol.
C. G. Stenzel.—De Trunce Palmarum Fossilium.
A. Monnier.—Essai Monographique sur les Hieracium.
A. Gris.—Recherches Microscopique sur la Chlorophylle. (Pamphlet.)
A. Richard.—Monographie des Orchidées des les de France et du Bourbon. (Pamphlet.)
Ch. Morren.—Recherches sur le Mouvement et l'Anatomie du Style du Goldfussia Anisophylla. (Pamphlet.)
Ch. Morren.—Recherches sur le Mouvement et l'Anatomie du Stylodium Graminifolium. (Pamphlet.)
J. Decaisne.—Memoire sur la Famille des Lardizablées. (Pamphlet.)
J. B. L. Letellier.—Figures des Champignons. Livr. 1 to 18, incl.
M. H. Bocquillon.—Revue du des Verbenacées.
Fr. Koernicke.—Monographiæ Marantearum Prodromos. 1 Vol.
Fr. Koernicke.—Monographiæ Marantearum Prodromos, II. 1 Vol.
St. Endlicher.—Iconographia Generum Plantarum.
E. Fries.—Icones Selectæ Hymenomycetum nondum delineatorum. Fasc. 1—3.
Dumond D'.—Voyage de l'Astrolabe. 2 Vols., with Atlas.
Gonnermann u. Rabenhorst.—Mycologia Europæa, Parts 1—9.
F. .—Iconographia Plantarum Fossilium. 1 Vol.
A. Bunge.—Generis Astragali Species Gerontogeæ Enumeratio, Parts 1-2.
F. .—Le Mond Primitif.

H. de Vriese.—Illustrations d'Orchidees des Indes Orientales Neerlandaises. 1 Atlas.
H. G. Schott.—Prodromus Systematis Arordearum. 1 Vol.
F. .—Genera et Species Plantarum Fossilium. 1 Vol.
J. Lindley and W. Hutton.—The Fossil Flora of Great Britain. 3 Vols.
J. Douval-Jouve.—Histoire Naturelle des Equistum de France. 1 Vol.
F. .—Die Fossile Flora von Sotzka. 1 Vol.
H. Schott.—Arordeae, Part I.
E. Boissier.—Icones Euphorbiarum. 1 Atlas.
E. Boissier.—Flora Orientalis. Vol II. (1 Vol.)

Periodicals.

Transactions of the Agricultural and Horticultural Society of India.—Vols. I—VIII. (8 Vols.) Presented by the Society.
Linnæa.—Vol. XXXVII, Part III.
Botanische Zeitung, 1873.—No. 1 only.
Bulletin de la Société Impérial des Naturalists de Moscou, 1872 —No. 1.
Bulletin du Congrés International de Botanique et d'Horticulture de St. Petersburg, 1870.

APPENDIX C.

List of Contributions to the Herbarium during the Official Year 1872-73.

Dr. F. Stoliczka.—A set of cutch-plants (48 species).
Dr. Maingay's Malacca plants purchased (1,326 species).
Diverse ferns presented by Dr. J. Hooker (713 species).
A set of Dr. Wight's Peninsula plants from Dr. J. D. Hooker (2,671 species).
Griffith's Indian grasses, distributed at Kew (356 species).
C. B. Clarke.—Two bundles of Banca plants sent by Dr. Scheffer (about 150 species).
A. L. Home, Esq.—Plants from the Sunderbuns (20 species).

Besides the above about 2,500 species of various plants (chiefly grasses and *Apocynæ*) have been returned from Kew, to where they were sent for the sake of identification. All the above additions, amounting to nearly 8,000 species, have been glued and taken in the general herbarium.

APPENDIX D.

Plants received from 1*st of April* 1872 *to* 31*st of March* 1873.

FROM WHOM RECEIVED.	Number of open and closed boxes.	Wardian cases.	Number of plants.
Royal Gardens, Kew, London	....	2	95
Royal Botanic Gardens, Peradenia, Ceylon	....	2	176
Botanic Gardens, Jamaica	....	2	34
Messrs. T. Lang and Co., Ballarat	2	....	223
Messrs. Haage and Schmidt, Erfurt, Prussia	1	1	75
Captain Lowe	....	1	20
Agri-Horticultural Society, Nagpore	1	....	12
W. Bull, Esq., F. L. S., London	....	1	63
Sir W. Macarthur, Camden Park, Sydney	1	....	7
Captain Murray	....	1	13
S. Jennings, Esq., Public Gardens, Allahabad	2	....	76
Colonel Hardinge, Rangoon	1	....	30
J. Gilbert, Esq.	1	....	21
Agri-Horticultural Society, Madras	1	....	7
Botanic Gardens, Ootacamund	....	1	25
Superintendent, Botanic Gardens, Ootacamund	1	....	6
A. Craw, Esq., Ranee Khet	1	....	38
T. Beaumont, Esq., M.D., Indore	1	....	32
Malabar, from S. S. *Patna*	1	....	2
Botanic Gardens, Melbourne	....	....	2
Eden Garden	....	....	17
Nicobar Islands	....	....	52
Colonel Raban	....	....	378
Total	14	11	1,404

APPENDIX E.

Seeds received from 1*st of April* 1872 *to* 31*st of March* 1873.

FROM WHOM RECEIVED.	Number of kinds.
Royal Gardens, Kew, London	9
Royal Batanic Gardens, Ceylon	3
Botanic Gardens, Melbourne	83
Botanic Gardens, Java	321
Botanic Gardens, Adelaide	30
Botanic Gardens, Edinburgh	8
Haage and Schmidt, Erfurt, Prussia	177
Queensland Acclimatization Society	106
Agri-Horticultural Society, Lahore	432
William Bull, Esq., F. L. S.	96
Sir W. Macarthur	17
E. Moir, Esq., Ajmere	1
C. Platz & Son, Erfurt	400
Botanic Garden, Algiers	183
Barr and Sugden	52
Agri-Horticultural Society, Lucknow	135
C. B. Clarke, Esq., M.A.	1
C. A. B. Anderson, Esq., Assam	2
Government Cinchona Plantations, Rungbee	100
Superintendent, Botanical Gardens	9
Botanical Gardens, Saharunpore	3
Gustav Mann, Esq.	1
Botanical Gardens, Ootacamund	11
The Commissioners appointed to inquire into production of, and trade in jute	50
Straits Settlements, Singapore	1
T. Beaumont, Esq., M.D., Indore	8
G. Bartlett, Esq.	31
—Jameison, Esq., Madras	1
Agri-Horticultural Society, Nagpore	1
Dr. King, Port Blair, Andamans	20
S. Jennings, Esq., Public Gardens, Allahabad	1
J. A. Crawford, Esq.	1
Government of Jamaica	1
Secretary to the Government of Bengal	1
Nicobar Islands	19
Total	2,415

APPENDIX F.

Plants despatched in cases from 1*st of April* 1872 *to* 31*st of March* 1873.

To whom supplied.	Number of open and closed boxes.	Wardian cases.	Number of plants.
Royal Gardens, Kew, London	......	1	53
Royal Gardens, Edinburgh	......	1	62
Royal Botanic Gardens, Peradenia, Ceylon	1	1	104
Colonel Haughton, Commissioner of Cooch Behar	2	...	60
Maharajah of Jeypore	4	...	100
Superintendent of Maunbhoom Jail	2	...	76
Rev. E. Rhoades	......	1	54
Straits Settlement, Singapore	1	...	23
— Thomson, Esq., Beehea	2	...	76

To whom supplied.	Number of open and closed boxes.	Wardian cases.	Number of plants.
W. M. Anderson, Esq., Emigration Agent for Jamaica	2	...	48
Colonial Secretary, Jamaica	......	2	115
The Queensland Acclimatization Society	......	1	32
Lady Napier, Madras	......	2	52
G. Fairbrother, Esq., Rangoon	1	...	10
Commander of S. S. *Bagdad*	......	1	20
Koliabar Tea Estate	1	...	12
Dr. Calley	1	...	12
Dr. Mathew, Civil Surgeon, Monghyr	1	...	13
E. F. Patterson, Esq.	......	1	14
T. Beaumont, Esq., M.D., Indore	1	...	7
Commander of S. S. *Scindia*	......	1	22
R. Morris, Esq.	......	1	32
William Bull, Esq., F. L. S., London	......	2	162
Captain Aimerez, S. S. *Patri*	......	1	28
W. Smith, Esq., Assistant Commissioner, Nya Doomka	4	...	105
G. Bartlett, Esq.	2	...	49
Messrs. Pickford, Gordon and Co.	1	...	20
Government Cinchona Plantation, Rungbee	6	...	360
Agri-Horticultural Society, Lucknow	1	...	16
Ditto ditto, Lahore	4	...	250
Dr. Chalmers	......	1	65
Superintendent of Jail, Dinagepore	1	...	50
Ditto ditto, Arrah	1	...	50
Ditto ditto, Bankipore	1	...	50
Commissioner of Chittagong	1	...	50
Assistant Collector of Baraset	1	...	50
Total ...	42	17	2,302

Plants issued in pots from 1*st of April* 1872 *to* 31*st of March* 1873.

To whom supplied.	Number of plants.
The Hon'ble Justice Markby	49
Captain Camell	9
S. Jennings, Esq., Public Gardens, Allahabad	41
Dr. Walker	15
H. A. Mangles, Esq., C.S.	12
Dr. Waller	12
Belvidere Gardens, Alipore	114
The Hon'ble Justice Jackson	27
T. A. Apcar, Esq.	38
Captain Laurell	30
Colonel Vanguerin	77
Public Assembly's Institution, Calcutta	50
T. Beaumont, Esq., Indore	42
Mint Garden	100
Church compound, Dum-Dum	100
Captain Boon	1
East Indian Railway	1,025
Babu Protapa Chandra Ghosa	1
Eden Garden	229
High Court	309
Calcutta Wards' Institution	100
Metcalfe Hall	510
Total ...	2,891

APPENDIX G.

Seeds despatched from 1*st of April* 1872 *to* 31*st of March* 1273.

To whom supplied:	Number of kinds.
Royal Gardens, Kew, London	6
Ditto, Edinburgh	100
Botanic Gardens, Melbourne	50
Ditto, Java	11
Messrs. Haage and Schmidt, Erfurt, Prussia	53
Botanic Gardens, Ootacamund	50
Agri-Horticultural Society, Lahore	251
M. DeCock, Ghent	10
Société d'Acclimatation, Paris	23
W. M. Anderson, Esq., Emigration Agent for Jamaica	58
Superintendent of Port Blair	1
His Honor the Lieutenant-Governor of Bengal	1
Dr. King, London	1
L. Johnson, Esq., Belvidere	8
— Thomson, Esq., Beehea	20
William Bull, Esq., F. L. S.	2
Public Gardens, Hong-Kong	110
— Kellimer, Esq.	10
A. Biermann, Esq.	35
— Saunders, Esq.	51
Agri-Horticultural Society, Lucknow	9
Total ...	860

PUBLIC WORKS DEPARTMENT,—BENGAL.

MISCELLANEOUS PUBLIC IMPROVEMENTS.

No. 232.

The 24th June 1873.

Notification.—The following statement of works of public utility constructed at the expense of private individuals in the several districts under the Government of Bengal during the year 1872 is published for general information :—

	Districts.	Names of the individuals by whom constructed.	Description of work.	Place where constructed.	Cost.			REMARKS.
		WESTERN DISTRICTS.			Rs.	A.	P.	
BURDWAN DIVISION.	Burdwan ...	Baboo Koonjo Beharylall Singh of Ookhra.	A fair-weather road	From Ookhra to a village named Boukhal, Thannah Raneegunge.	1,200	0	0	
		Baboo Nobokisto Sadhoo of Churnia.	A tank ...	Village Churnia, Thannah Raneegunge.	2,200	0	0	
		Baboo Kally Prosono Naik.	Ditto ...	Village Rajpore, Thanaah Raneegunge.	700	0	0	
		Baboo Doorga Dass Chatterjee.	A bund ...	South of village Pollasdanga, Thannah Sonamookhy.	1,200	0	0	
	Bancoorah ...	Gopinee Boistubee of Bancoorah.	A tank ...	Sisomoneepore, Thannah Bancoorah.	2,100	0	0	
		Bholanath Nundy of Bellioni.	Ditto ...	Borobagan village, Bellioni, Thannah Oudah.	1,246	0	0	
		Mugun Mudduk of Chatna.	Ditto ...	Chatna, Police Station Chatna.	700	0	0	
	Midnapore ...	Roghonath Pal ...	A tank ...	Rajetpore ...	600	0	0	
		Proshad Ghoroe ...	Ditto ...	Mooraree Chuck ...	500	0	0	
		Hara Maitee ...	Ditto ...	Ghasipore ...	400	0	0	
	Hooghly ...	Doorga Churn Ghose...	A tank ...	Akna, in thannah Bansbariah.	3,600	0	0	
		Rajendro Cowar ...	Repairing a bridge	Panchgurrah, Pandua Thannah	400	0	0	
		Madub Chunder Chatterjee.	A bridge ...	Belapòle, Pandua Thannah.	300	0	0	
		Tarini Churn Chatterjee.	Repairing a road...	From Patra to Pandua Railway Station.	150	0	0	
		Medun Gopal Mookerjee and Poorno Chunder Banerjee.	A tank ...	Bela Shikra, Pandua Thannah.	600	0	0	
		Kally Churn Khan ...	Ditto ...	Khulsini, Boidabatty Thannah.	5,000	0	0	
		Gobindo Pal ...	Ditto ...	Desaporah, Thannah Boidobatty.	300	0	0	
		Jolpee Mullick ...	Ditto ...	Sooloot, Thannah Khanacool.	600	0	0	
		Ramjoy Mondul ...	Ditto ...	Sonatolah, Thannah Khanacool.	500	0	0	
		Zaheer Sircar ...	Ditto ...	Koomeermarah, Thannah Khanacool.	700	0	0	
		Doorga Das Bannerjee	Ditto ...	Katoora, Thannah Khanacool.	400	0	0	
	Howrah ...	Ashootosh Chuckerbutty of Fooleshur.	A tank ...	Kooshberia, Thannah Oolooberiah.	700	0	0	
		Kartick Bhuktah ...	Ditto ...	Chachel, Thannah Oolooberiah.	600	0	0	
		CENTRAL DISTRICTS.						
PRESIDENCY DIVISION.	Nuddea ...	Baboo Brindabun Chunder Sircar.	A Tank ...	Matiuree ...	847	2	0	For the purpose of providing water for the locality.
RAJSHAHYE DIVISION.	Moorshedabad	Roy Jogendranarain Roy of Sreemuntpore	A Katcha road from Lallgollah to Natallah.	Pergunnah Rokunpore, Thannah Dewanseraie	2,300	0	0	A useful work.
		Ditto ...	Repairing a pucca road at the village of Lallgollah.	Pergunnah Islampore, Thannah Dewanseraie.	916	0	0	Ditto.
		Ditto ...	Repairing kutcha road in Kishtopore and Manick Chuck villages.	Pergunnah Lushkurpore, Thannah Dewanseraie.	255	0	0	Ditto.
		Ditto ...	A Pucka bridge ...	Near Paharpore, in Pergunnah Rokunpore, Thannah Dewanseraie.	169	0	0	Ditto.
		Baboo Umbika Churn Chowdhri of Kagram, Thannah Barutpore.	A Tank ...	Near Jamalpore, Pergunnah Morwhurshahi, Thannah Bhurupore.	558	9	0	For the supply of drinking water to the residents by whom the want was felt.

	Districts.	Names of the individuals by whom constructed.	Description of work.	Place where constructed.	Cost.			REMARKS.
					Rs.	A.	P.	
	Bograh ...	Expended from the income of Taruf Murail by Rughu Nath Mozumdar, Trustee.	A large pucka ghat on the Karataya.	......	3,000	0	0	
COOCH BEHAR DIVISION.	Darjeeling ...	Sham Loll Shaha ...	A pucka well ...	Mateegurah ...	500	0	0	
		EASTERN DISTRICTS.						
DACCA DIVISION.	Dacca ...	Kurrim Khan ...	Cutting Shikareetolah Khall.	Shikareetolah in Keraungunge out-post, Thannah Lallbaugh.	303	14	0	
		Baboo Kalikishore Gooho	A cutcha road ...	Buzrojooginee to Markadeem.	750	0	0	
CHITTAGONG DIVISION.	Noacolly ...	Roghoonath Dhossee...	A Road ...	From Churshoonnee to Kashigunga.	100	0	0	
		BEHAR.						
PATNA DIVISION.	Patna ...	Mussamut Luchmee Koer.	A tank and temple	Nadowan in Thannah Mussowree, Zillah Patna.	16,000	0	0	
BHAUGULPORE DIVISION.	Sonthal Pergunnahs.	Baboo Ramprosad Doss	Three miles of the road from Kunwabad to Dhakia joining there the imperial road between Soory and Bhaugulpore.	Sub-district Doomka ...	652	0	0	
		" Sardhari Lall ...	One-fourth the cost of building a pucka charitable dispensary at Doomka.	Ditto ...	480	0	0	
	Purneah ...	Omraw Mowur ...	Pucka well ...	Mednipore, P. S. Manibaree.	500	0	0	
		Mussamut Luchbuty Chowdhrani, widow of Luchminarain Chowdhry.	A tank and temple	Bowsi, 10 miles south-east of P. S. Ranigunge.	3,500	0	0	
		Widow of late Pran Roy of village Baloon Porora, pergunnah Haveli.	A Tank ...	eight miles east of P. S. Ranigunge.	94	0	0	
		Kadum Ally ...	Ditto ...	Doria P. Sultanpore, P. S. Matiari.	300	0	0	
		Bhee Cheely Jha ...	Ditto ...	Sahabazpore, P. Sultanpore.	350	0	0	
		Talookchand Jha ...	Ditto ...	Pepra, pergunnah Kumaripore, P. S. Kudwa.	840	0	0	
		Bhoksi Jha ...	Ditto ...	Gurki, P. station Awarea	400	0	0	
		Golam Hossein ...	A Well ...	Rampore Bhur Bhuri, Police station Awariah	100	0	0	
CHOTA NAGPORE.	Lohardugga...	Dookhee Sahoo of Garwah.	A School-house ...	Town of Garwah, Palamow sub-district.	450	0	0	Presented to the town of Garwah. The building is capable of accommodating about 150 boys.
		Ditto ...	Dispensary ...	Ditto ...	180	0	0	A small dispensary, with accommodation for about six indoor patients.
	Singbhoom ...	Rani Rattan Kumari, mother of the Raja of Sarikella.	An Asylum for incurables.	Chyebassah ...	300	0	0	
		Gopal Perdhan ...	A Tank ...	Kuruliah ...	825	0	0	
		Sonoo Mahapatar ...	Ditto ...	Kochapur ...	350	0	0	
		Ramchunder Perdhan	Ditto ...	Govindpur ...	350	0	0	
		Daroga Moondah ...	Ditto ...	Pirapodda ...	550	0	0	
		Sodoy Chowdhry ...	Ditto ...	Teringdih ...	500	0	0	
		Gobind Gore ...	Ditto ...	Lakhansai ...	300	0	0	
		Sadoy Gour ...	Ditto ...	Parasai ...	300	0	0	
		Ballab Gour ...	Ditto ...	Baglota ...	200	0	0	
		Ram Bhaujan Singh ...	Ditto ...	Nawahassan ...	500	0	0	
		Lokenath Shaha ...	Ditto ...	Joypoora ...	200	0	0	
		Lokenath Paingrahi ...	Ditto ...	Mooroona ...	325	0	0	
		Roopnath Dechheet ...	Ditto ...	Talia ...	1,000	0	0	

Districts.		Names of the individuals by whom constructed.	Description of work.	Place where constructed.	Cost.			REMARKS.
					Rs.	A.	P.	
CHOTA NAGPORE.—(*Continued.*)	Singbhoom.—(*Continued.*)	Dassrathi Sahoo ...	A Tank ...	Amdangrah ...	400	0	0	
		Janardan Mahapatar ...	Ditto ...	Bhalupatra ...	500	0	0	
		Keenoo Manjhi ...	Ditto ...	Rajdoha ...	200	0	0	
		Ganesh Panee ...	Ditto ...	Noonia ...	1,250	0	0	
		Kirpasindhu Panigrahi	Ditto ...	Bijrabandee ...	850	0	0	
		Goorucharan Samul ...	2 Tanks ...	Batsarah ...	860	0	0	
		Sadhoocharan Shamal	Tank ...	Barkona ...	200	0	0	
ASSAM.	Seebsaugor ...	Mr. Williamson, bequest money.	School-house ...	Jorehaut ...	6,054	0	0	
		Ditto ...	Ditto ...	Golaghat ...	6,407	0	0	

J. E. T. NICOLLS, *Coll., R. E.,*
Secy. to the Govt. of Bengal, P. W. D.

Prices Current of Food-grains and Salt in the undermentioned

DIVISIONS		DISTRICTS.	QUANTITIES PER RUPEE											
			WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
			Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		BENGAL.												
		Western Districts.												
			S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
BURDWAN ...	1	Burdwan	15 0	15 0	16 0	25 0	25 8	21 0	18 0	19 0	22 8	19 8	20 8	23 8
	2	Bancoorah	15 8	15 8	16 13	23 0	23 0	21 0	16 0	16 8	20 0	19 0	19 8	21 8
	3	Beerbhoom...	14 0	16 8	21 0	20 0	19 0	25 0	16 8	18 0	21 0	18 8	21 0	24 0
	4	Midnapore	11 4	12 0	14 0	...	...	13 0	20 0	19 0	20 0	25 0	25 0	23 0
	5	Hooghly	15 0	15 0	18 0	...	...	...	10 0	10 0	16 0	19 0	18 8	20 0
		Howrah	15 0	15 0	18 0	25 0	25 0	22 0	15 0	15 0	16 0	20 0	20 0	20 0
		Central Districts.												
PRESIDENCY ...	6	24-Pergunnahs	13 5	13 5	16 8	20 0	20 0	22 8	8 0	8 0	8 0	19 0	19 0	20 0
	7	Nuddea	14 4	15 4	17 12	32 0	32 0	32 0	16 0	16 0	16 13½	17 12	17 12	18 14
	8	Jessore	14 8	16 0	19 0	...	...	...	18 0	18 8	20 0	25 8	26 12	25 8
RAJSHAHYE ...	9	Moorshedabad	16 0	16 0	20 0	...	...	...	15 0	14 0	18 0	18 8	19 0	18 0
	10	Dinagepore	14 8	15 0	13 8	22 8	22 8	20 8	20 0	23 0	23 0	24 0	27 8	28 0
	11	Maldah	18 0	19 0	20 0	40 0	35 0	38 0	21 0	22 0	24 0	22 0	23 0	25 0
	12	Rajshahye	16 8	16 8	17 4	32 0	33 12	37 8	15 0	15 0	16 14	21 9	21 0	22 8
	13	Rungpore	15 0	14 0	16 5	...	...	...	15 0	14 0	15 0	25 14	24 0	24 0
	14	Bograh	15 0	18 0	19 8	...	...	...	15 12	15 0	18 0	28 0	30 0	33 12
	15	Pubna	20 0	20 0	23 0	...	...	...	12 0	12 0	15 0	26 4	26 4	28 12
COOCH BEHAR ...	16	Darjeeling	6 0	6 0	8 0	10 0	10 0	10 0	10 0	11 0	13 0	13 0	13 0	13 0
	17	Julpigoree	11 0	10 0	...	...	...	...	12 0	12 0	...	16 0	16 0	...
		Cooch Behar.*												
		Eastern Districts.												
DACCA ...	18	Dacca	11 12	12 0	18 0	26 0	20 0	20 0	21 0	21 0	21 0	30 0	30 0	28 0
	19	Furreedpore	20 0	21 4	25 0	40 0	40 0	35 0	10 0	10 0	10 0	22 8	25 0	25
	20	Backergunge	...	...	...	...	...	...	13 0	13 8	19 0	26 0	27 0	25 0
	21	Mymensing	12 12	13 0	14 0	...	...	...	24 0	24 0	21 0	32 0	32 0	32 0
	22	Sylhet	8 0	8 0	9 0	11 8	11 8	11 8	22 0	22 0	22 8	32 0	32 0	44 0
	23	Cachar	8 14	9 6	9 6	...	...	...	26 10	24 10	24 10	30 8	29 1	29 1
CHITTAGONG ...	24	Chittagong...	13 0	13 0	14 0	...	...	...	16 0	16 0	14 0	24 0	24 0	32 0
	25	Noakhally	...	...	...	...	...	...	17 0	16 0	18 0	24 0	24 0	26 0
	26	Tipperah	10 0	9 8	13 0	...	...	...	20 0	20 0	20 0	32 8	32 8	32 8
	27	Chittagong Hill Tracts	...	...	...	...	...	...	14 0	13 5	13 5	16 0	16 0	20 0
		Hill Tipperah	10 6	10 6	10 5	...	...	...	24 2	21 6	23 1	30 4	32 0	37 6
		BEHAR.												
PATNA ...	28	Patna	16 0	16 0	24 0	27 0	27 0	31 4	17 0	16 0	...	18 0	17 12	21 0
	29	Gya	16 0	16 0	20 0	27 0	28 0	37 0	12 0	12 4	12 8	16 8	16 0	20 0
	30	Shahabad	16 0	16 0	21 0	23 0	26 0	28 0	11 0	11 0	12 0	16 0	16 0	20 0
	31	Tirhoot	14 0	14 0	15 0	25 0	28 0	27 0	19 0	19 0	16 0	17 0	20 0	15 0
	32	Sarun	14 0	14 0	17 0	25 0	25 0	26 0	12 8	12 8	14 0	16 8	16 8	19 0
	33	Chumparun	16 0	16 0	20 0	35 0	35 0	34 0	13 0	13 0	14 0	18 0	17 0	21 0
BHAUGULPORE ...	34	Monghyr	19 9	19 9	17 8	38 8	33 6	31 2	12 6	13 6	12 6	15 7	16 1	16 4
	35	Bhaugulpore	17 3	20 3	18 15	30 5	31 9	34 13	15 2	15 2	17 0	16 6	16 6	21 7
	36	Purneah	14 0	15 0	12 0	26 5	30 0	40 0	17 0	18 0	25 0	19 0	21 0	31 0
	37	Sonthal Pergunnahs	17 0	14 0	16 0	...	...	...	13 8	16 0	20 0	16 8	18 0	22 0
		ORISSA.												
ORISSA ...	38	Cuttack	14 7	15 12	14 6	...	...	...	23 10	21 0	19 5	28 14	27 9	24 4
	39	Pooree	14 7	15 12	15 12	...	...	...	22 5	19 11	22 5	34 2	33 0	29 3
	40	Balasore	12 0	12 0	...	...	...	...	16 0	18 0	...	38 0	38 0	...
		CHOTA NAGPORE.												
		South-West Frontier Agency.												
CHOTA NAGPORE	41	Hazareebaugh	15 8	16 0	19 0	21 0	...	24 0	12 0	11 0	12 4	16 0	17 0	21 8
	42	Lohardugga	16 0	14 0	14 0	18 0	17 0	28 0	14 0	15 0	20 0	17 0	18 0	25 0
	43	Singhboom	18 0	18 0	23 0	24 0	24 0	37 0	20 0	20 0	...	32 0	32 0	37 0
	44	Maunbhoom	16 0	16 0	16 8	28 0	28 0	24 0	16 0	16 0	18 0	22 0	23 0	22 0
		ASSAM AND ADJACENT HILLS.												
ASSAM ...	45	Gowalpara	26 0	25 0	20 0	...	...	...	16 0	15 0	13 4	22 0	22 0	20 0
	46	Kamroop	13 0	13 0	20 0	...	...	...	16 0	12 0	10 0	20 0	20 0	26 0
	47	Durrung	10 0	10 0	10 0	...	...	...	13 0	13 0	13 0	21 0	21 0	16 0
	48	Nowgong	16 0	16 0	16 0	...	...	...	12 0	12 0	13 0	18 0	18 0	18 0
	49	Seebsaugor...	6 0	6 0	12 0	...	...	...	16 0	16 0	20 0	20 0	20 0	25 0
	50	Lukhimpore	9 0	9 0	10 0	...	...	...	6 0	6 0	8 0	9 0	10 0	14 0
	51	Naga Hills.*												
	52	Khasi and Jynteah Hills ...	...	...	...	...	...	...	11 0	12 0	...	13 0	15 0	...
	53	Garo Hills.*												

* Return not received.

CALCUTTA,
The 23rd June 1873.

Districts of Bengal on the 15*th June* 1873.

BY THE SEER OF 80 TOLAHS.

BAJRA.			JOWAR.			GRAM.			RAGI OR MURWA.			MAIZE OR INDIAN CORN.			SALT.			REMARKS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch	S. Ch.	S. Ch.	S. Ch	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	
...	...	...	...	...	...	23 0	23 0	22 4	...	...	...	...	...	...	8 4	9 4	8 14	
27 0	27 0	26 8	36 0	35 0	30 0	22 8	22 12	18 0	...	...	...	...	...	...	8 0	8 5	8 14	
...	...	...	...	...	...	22 0	22 8	26 0	...	...	...	...	...	...	8 12	8 12	8 8	
...	...	...	...	...	...	17 12	18 0	19 0	...	...	...	...	...	...	8 0	8 4	8 8	
...	...	...	...	...	...	20 0	22 8	18 0	...	...	...	...	...	...	9 0	9 0	8 0	
...	...	...	...	...	...	20 0	20 0	22 0	...	...	...	...	...	...	9 0	9 0	9 0	
...	...	...	...	...	...	20 0	20 0	16 0	...	...	...	...	...	...	8 12	8 12	8 12	
...	...	...	...	...	...	26 11	29 0	28 0	...	...	...	...	...	...	8 10¼	8 14	8 14	
...	...	...	...	...	...	21 0	25 0	21 5	...	...	...	...	...	...	8 0	8 0	8 0	
...	...	...	...	...	...	27 0	28 0	27 0	...	...	...	...	...	...	9 0	8 8	8 8	
...	...	...	...	...	...	18 12	18 12	19 4	...	...	...	...	...	...	6 6	6 8	7 0	
...	...	...	...	...	...	23 0	24 0	21 0	...	...	...	...	...	...	7 8	8 0	8 0	
...	...	...	...	...	...	22 8	25 0	...	...	...	...	...	...	...	5 12	7 4	...	
...	...	...	...	...	...	15 0	15 0	16 5	...	...	...	...	...	...	6 4	7 0	7 8	
...	...	...	...	...	...	17 0	18 0	22 8	...	...	...	...	...	...	6 12	6 0	8 0	
...	...	...	...	...	...	26 4	26 4	31 0	...	...	...	...	...	...	7 12	8 0	8 0	
...	...	...	...	...	...	10 0	8 0	8 0	12 0	12 0	12 0	20 0	20 0	30 0	4 0	4 8	4 8	
...	...	...	...	...	...	13 0	12 0	...	...	...	...	...	...	...	7 0	7 0	...	
21 0	21 0	...	...	...	...	20 0	20 0	20 0	...	...	...	...	...	...	8 0	9 0	9 0	
...	...	...	...	...	...	18 0	22 8	22 8	...	...	...	...	...	...	7 8	7 8	8 0	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8 4	8 8	8 0	
...	...	...	...	...	...	20 0	24 0	16 8	...	...	...	...	...	...	7 8	8 0	8 4	
...	...	...	...	...	...	20 0	20 0	20 0	...	...	...	...	...	...	8 4	8 4	9 0	
...	...	...	...	...	...	12 4	13 5	16 0	...	...	...	...	...	...	7 9	8 0	8 10	
...	...	...	...	...	...	12 0	16 0	14 0	...	...	...	...	...	...	7 8	7 8	7 0	
...	...	...	...	...	...	16 0	16 0	14 0	...	...	...	...	...	...	7 8	7 8	8 0	
...	...	...	...	...	...	16 0	16 0	18 0	...	...	...	...	...	...	8 0	8 8	9 4	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6 4	6 4	6 8	
...	...	...	...	...	...	11 4	10 6	10 2	...	...	...	...	...	...	7 6	8 0	7 8	
...	...	...	28 0	34 8	35 0	28 8	28 0	35 0	...	...	...	...	...	...	8 0	8 0	8 0	
...	...	...	...	...	...	22 0	21 4	25 0	...	...	...	...	...	...	7 0	7 8	7 8	
...	...	...	...	...	...	26 0	27 0	28 0	...	...	...	...	...	...	8 0	8 0	8 0	
...	...	...	...	...	...	22 8	22 8	20 0	...	32 0	...	...	30 0	...	7 4	7 4	7 0	
...	...	...	16 0	24 0	...	25 0	25 0	25 0	32 0	32 0	...	22 0	24 0	...	7 4	8 0	8 0	
...	...	...	...	...	...	26 0	26 0	22 0	...	...	...	32 0	32 0	...	6 12	6 12	7 0	
...	...	...	...	...	...	29 4	30 4	28 8	...	...	...	16 8	27 3	20 9	7 3	8 1	7 8	
...	...	...	...	...	...	26 6	26 14	27 12	...	...	...	...	...	...	7 9	8 3	7 9	
...	...	...	...	...	...	23 0	26 0	30 0	...	...	...	...	...	...	6 5	7 5	7 5	
40 0	32 0	40 0	...	...	...	21 0	21 0	19 0	...	...	...	30 0	40 0	40 0	8 0	8 0	8 0	
...	...	...	...	...	...	26 4	26 4	26 9	...	...	...	...	...	...	9 0	9 2	8 3	
...	...	...	...	...	...	23 10	23 10	23 10	...	...	...	...	...	...	...	...	...	
...	...	...	...	...	...	10 0	10 0	...	...	...	...	...	...	...	7 0	7 0	...	
...	...	...	...	...	...	17 0	19 0	20 8	27 0	30 0	...	19 8	22 0	28 8	6 8	7 4	7 2	
...	...	...	...	...	...	16 0	14 0	14 0	40 0	30 0	...	24 0	24 0	30 0	6 0	6 0	6 0	
...	...	...	...	...	...	18 0	18 0	19 0	...	...	...	...	...	...	6 0	6 0	5 0	
...	...	...	...	...	...	20 0	22 0	18 0	...	...	...	40 0	40 0	40 0	7 12	8 0	7 8	
...	...	...	...	...	...	13 0	10 0	16 0	...	...	...	...	...	...	7 0	8 0	7 8	
...	...	...	...	...	...	10 0	12 0	9 0	...	...	...	...	...	...	7 0	8 0	8 0	
...	...	...	...	...	...	8 0	8 0	8 0	...	...	...	...	...	...	6 8	6 8	6 0	
...	...	...	...	...	...	8 0	8 0	10 0	...	...	...	...	...	...	6 8	6 8	7 0	
...	...	...	...	...	...	8 0	8 0	5 0	...	...	...	...	...	...	6 8	6 8	5 0	
...	...	...	...	...	...	12 0	12 0	10 0	...	...	...	...	...	...	5 8	6 0	6 3	
...	...	...	...	...	...	8 0	8 0	...	...	...	...	...	...	...	4 0	5 0	...	

Published for general information.

R. KNIGHT,

Asst. Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, State and Prospects of the Crops in the different Districts of Bengal, as reported to Government during the week ending the 21st June 1873.

No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
BENGAL.						
	Western Districts.	1873.				
BURDWAN DIVISION.						
1	Burdwan ...	June 24th*	3·50	Weather hot ...	More rain wanted for the sowings of aus and amun crops. Grain market firm.	Fever prevalent.
2	Bancoorah ...	" 21st	1·35	One heavy shower at head-quarters on the 17th. Also some heavy rain in the north of the district.	Since rain fell, the sowing of the amun rice crop has commenced. Other crops are doing well.	
3	Beerbhoom ..	" 21st	1·37	Rain general, but insufficient, especially towards the south-east. Weather very oppressive; the sky overcast.	More rain is much wanted for preparing the ground for the rice crop and for sugarcane.	Cholera has disappeared in the places previously attacked, but has broken out somewhat virulently in the west and south-west. A flight of locusts passed westward.
4	Midnapore ...	" 21st	1·96	Cloudy and rainy, but the fall is too scanty.	A plentiful rainfall is, however, wanted towards the north. The south of the district always suffers less from drought, and is not doing badly.	
5	Hooghly ...	" 21st	1·27	Clear and cloudy. Heavy showers of rain on the evening of the 16th June.	Prospect of aus paddy is not very good for want of rain. The sowing of amun dhan in places has been commenced.	
	Howrah ...	" 21st	1·78	Stormy in first part of the week, and very hot and sultry in the last part.	The rain that fell in the first part of the week did some good, but the extreme heat and drought during the last half-week has acted injuriously. If the rains do not set in soon, there will be serious reason to apprehend disastrous results.	
	Central Districts.					
PRESIDENCY DIVISION.						
6	24-Pergunnahs ...	" 24th	1·13	There was more or less rain in the early part of the week; during the latter part the weather was every hot. Sky occasionally cloudy.	The aus rice looks promising in some places, but more rain is needed in others.	Cholera has abated at Buseerhat. General health good in all other sub-divisions.
7	Nuddea ...	" 21st	2·02	Hot and oppressive; comparatively little rain.	In spite of the small quantity of rain the crops promise pretty well, but more rain is much wanted.	
8	Jessore ...	" 21st	5·19	Generally cloudy; wind generally from the south.	The rain has done good to both indigo and rice. Jute and sugarcane are growing fairly. In Khoolnah the teel has suffered somewhat from the rain, but generally more rain is still wanted.	
RAJSHAHYE DIVISION.						
9	Moorshedabad ...	" 21st	1·56	There has been more rain since last week. The sky is overcast, and there is every probability of more rainfall.	Agricultural operations continue. The young dhan looks well. Sugarcane is progressing very fairly.	A large flight of locusts in the afternoon of the 20th, flying in a south-westerly direction.
10	Dinagepore ...	" 21st	6·37	Rain has fallen throughout the district.	Crops are now progressing favorably.	
11	Maldah ...	" 21st	0·86	Cloudy; rain almost daily.	Plentiful showers. Bhadoi and amun dhan progressing. Mango crop poor.	

* Telegram of the 24th June received on the same day.

	No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMARKS.
		NGAL.—(*Contd.*)					
		Central Districts.—(Contd.)	1873.				
S. JSHAHYE ION.—(Con	12	Rajshahye ...	June 21st	2·04	The rains have already set in and the heat of the summer has been softened. Clouds always appear in the horizon, and heavy falls of rain occasionally follow. The intervals between the gathering of clouds and fall of rain were sultry and unpleasant.	The rain of the last week has done great service to the autumn and the cold-weather crops. Jute also has been highly benefited. More rain is wanted before the buds develop properly. Sugarcane, mulberry, and indigo are thriving, and teel has already been harvested.	
	13	Rungpore ...	„ 21st	7·62	Heavy rain, with thunder.	All crops looking well. Winter rice is being transplanted on high grounds.	
	14	Bograh ..	„ 21st	1·17	Showery and pretty cool	Early rice growing fairly. Sowing of late rice for transplantation continues. Jute promises well.	
	15	Pubna ...	„ 21st	0·95	Weather cloudy, with occasional showers.	The indigo, sugarcane, aus, and amun crops are promising, but want more rain. Jute is being sown. Indigo prospects are more hopeful, and the recent rains have done indigo good.	
COOCH BEHAR DIVISION.	16	Darjeeling ...	„ 21st	7·24	Quite seasonable. Plenty of rain.	In the hills crops progessing favorably. The millet called cownie has just been reaped, and yielded a good return. One sort of maize is being reaped. There is a slight deficiency in the outturn, occasioned by the want of rain a fortnight ago. In the Terai crops progressing favorably.	
	17	Julpigoree ...	......	......	......	......	Return not received.
		Cooch Behar ...	......	......	......	......	Return not received.
		Eastern Districts.					
DACCA DIVISION.	18	Dacca ...	„ 24th*	2·9	Weather, alternate sunshine and rain.	Prospects of crops very good.	
	19	Furreedpore ...	„ 21st	1·64	Weather hot; sky cloudy and overcast, with gleams of sunshine.	Crops progressing satisfactorily. River rising steadily.	
	20	Backergunge ...	„ 21st	3·32	Rainy ...	Good.	
	21	Mymensing ...	„ 21st	11·75	Almost continuous rain during the week, except in the south-west of the district, where there was much less rain than elsewhere.	The rain has been of much benefit, and the crops are doing well. An interval of fine weather would now be desirable.	
	22	Sylhet ...	„ 14th	8·82	Very cool after the heavy showers of rain this week.	Very good; everything promises well.	
	23	Cachar ...	„ 14th	7·86	Cloudy, with rain. Somewhat cooler than last week.	The season is very late, but the aus dhan is beginning to come up.	
CHITTAGONG DIVISION.	24	Chittagong ...	„ 14th	5·85	With the exception of a shower or two, the early part of the week was dry, with a good deal of wind. To the eastward rain appeared to be falling in the hill tracts. Since yesterday noon it has been raining steadily, with scarcely any intermission.	The rain will enable the cultivators to go to work in earnest.	Both fever and cholera seem to be on the decrease.
	25	Noakhally ...	„ 14th	1·1	Very high winds on the 11th and 12th. Weather cloudy and rainy.	Sowing of amun dhan commenced, and aus dhan doing well.	
	26	Tipperah ...	„ 21st	10·04	Constant rain during the week. 5·29 fell on Saturday night and Sunday morning.	Quite satisfactory.	

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	No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	REMA
BENGAL.—(*Contd.*)							
		Eastern Districts.—(Contd.)	1873.				
CHITTAGONG DIVN.	27	Chittagong Hill Tracts	June 14th	5·18	The whole week has been rainy. It set in heavily from the 13th instant.	The prospect and cotto joom cult over. The being ploughed for cultivation.	
		Hill Tipperah ...	„ 14th	1·03	First part of the week very hot; the latter part cool owing to the fall of rain.	Good. Ploughing and sowing fairly commenced in all parts of the district.	
BEHAR.							
PATNA DIVISION.	28	Patna ...	„ 24th*	0·95	Weather very hot ...	The rain which fell has been beneficial to cultivation, but more is still wanted.	Small-pox dis peared, but lera has b out with viru in Behar sub-sion.
	29	Gya ...	„ 21st	0·5	Seasonable ...	Lands are being tilled. Sugarcane fair.	
	30	Shahabad ...	„ 21st	0·50	Rain fell two or three times during the week; in the intervals the heat has been very excessive.	Lands being ploughed for bhadoi. Murwa sown in nurseries. Continuous rain much wanted.	Cholera and sn pox still preva in places.
	31	Tirhoot ...	„ 21st	2·60	Hot and cloudy ...	The rain which has fallen during the week has been most beneficial to the crops in general, and specially to indigo. The ryots are rigorously engaged in cultivating the land. The fear of distress has been removed. The outturn of cheena and moong is below average. More rain wanted and expected.	Reports receive cholera in D bhangah sl increase in number of dea
	32	Sarun ...	„ 21st	2·24	Cloudy and seasonable; some heavy showers of rain during the week.	Rain general throughout the district. The prospect of indigo continues favorable. Sugarcane, moong, and boro dhan, are doing well. The bhadoi crops are being put in the ground.	
	33	Chumparun ...	„ 21st	2·65	Sultry. Rain almost every day.	The rain has been of much benefit. The bhadoi crops are being sown.	
BHAUGULPORE DIVN.	34	Monghyr ...	„ 21st	0·45	Very hot, close, and cloudy.	There was heavy rain last night. The prospects of the crops generally are very good.	
	35	Bhaugulpore ...	„ 24th*	1·20	Rain general throughout the district.	Existing crops greatly benefited by the rains. Enough has fallen for all purposes for the present.	Small-pox decreas ing. Cholera here and there.
	36	Puraeah ...	„ 21st	0·57	Sultry and hot ...	More rain is wanted, particularly in the west.	
	37	Sonthal Pergunnahs ...	„ 21st	0·93	Rain fell during the early part of the week throughout the district; much more is wanted.	Jenerah, goondli, and dhan being sown.	A flight of locusts on the 20th from south-east to north-west.
ORISSA.							
ORISSA DIVISION.	38	Cuttack ...	„ 24th*	1·13	Weather hot. Rain at Kendrapara sub-division.	......	Several cases of cholera.
	39	Pooree ...	„ 14th	0·70	Cloudy, with occasional rain.	Sarud seed, sown in low lands, has come up, but the seed which came up last week is suffering from want of rain. In several pergunnahs sarud is being sown in low lands, and preparation for sowing on higher lands is being made. Beali crop is being sown in some pergunnahs, and sugarcane being earthed up. Khurdaha.—In some low lands sowing has just finished, and in others the young paddy crops are promising. Sowing going on in high lands. More rain needed.	
	40	Balasore ...	„ 21st	3·10	Cloudy, with constant showers and drizzling rain.	Sowing well advanced. Early rice a[illegible]ve ground. Weather highly f[illegible]orable.	Public health in general good.

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No.	District.	Date of return from each district.	Rainfall at Sudder Station in inches.	Character of the weather in the district as far as known.	State and prospects of the crops at date.	Remarks.
NGAL- GPORE.						
	Central Districts.—(Contd.)	1873.				
12	Rajshahye ...	June 21st	0·77	Very hot and sultry in early part of the week. A fall of rain on Thursday night has made it a little cooler. There have been storms in the district. Much rain to the north of the district.	More rain is needed throughout the district, though the ploughing is going on. In parts where there has been much rain, nearly all the sowings are completed.	The reports of small-pox still continue.
42	Lohardugga ...	„ 21st	0·32	Cloudy and stormy, but cooler than last week. Every appearance of rain, but no rain comes.	The sowings are still going on in this part of the district, but rain is urgently required for the young dhan In Palamow there was rain between the 14th and 17th instant.	
43	Singbhoom ...	„ 14th	1·83	It has rained plentifully since date of last report, and only in time. Weather cool and fresh.	Sowings of paddy for the greater part completed. Sowings of Indian-corn commencing. State of such crops as have come up satisfactory.	
44	Maunbhoom ...	„ 21st	0·85	Showery and moderately cool.	The showers have been pretty general, and have done much good to the crops.	Cholera and small pox still prevalent, but not on the increase.
SAM AND ADJACENT HILLS.						
45	Goalparah ...	„ 14th	12·72	The whole week was cloudy and rainy, with occasional sunshine. Weather comparatively cool.	Prospects of asoo crop are brightening and hopeful. Jute and sugarcane thriving. Sowing of winter rice crop in nurseries has commenced.	Cholera still prevails. The river Berhampooter rose greatly during the week.
46	Kamroop ...	„ 23rd*	3·0	Heavy rains nearly every morning during the past week, with a bright sun in the afternoon.	Tea, cotton, and sugarcane progressing favorably. Aus crops have been partially destroyed in the sub-division of Burpettah by inundations. Shali dhan being sown in nurseries.	Some cases of cholera reported in the Sudder Station and its vicinity, but not epidemic. On the whole public health is good.
47	Durrung ...	„ 14th	4·19	Comparatively cool and cloudy, and duration of wind variable.	Heavy rain in Mungledye sub-division. Country under water. Not so bad at Tezpore.	Cattle disease much decreased.
48	Nowgong ...	„ 14th	1·60	The monsoon has regularly set in. Weather cool and very cloudy, with frequent smart showers and strong wind.	The aus crop promises well. Weather favorable for tea operations.	The cattle murrain has all but died out. No fresh cases of cholera, but a great deal of low fever and bowel complaint flying about, but not of a fatal type.
49	Seebsaugor ...	„ 14th	1·69	Cloudy, with showers alternately.	The preparations for the sali crop are still backward in some parts of the district owing to want of rain, but heavier rain appears now to have set in. Tea doing only fairly.	Cattle disease still prevalent.
50	Luckimpore ...	„ 14th	4·48	The whole week wet and cloudy. Rain fell every day generally during the night or in the morning; evenings fair. North Luckimpore sub-division. Rain throughout the week; cool and cloudy.	Prospects of the crops good.	
51	Naga Hills ...	„ 7th	0·36	Hot and sultry, with very little rain anywhere.	Doubtful. More rain much wanted.	
52	Khasi & Jynteah Hills	„ 14th	3·94	Heavy rain has fallen throughout the hills and the weather is seasonable.	The rain has done good, and the crops—rice, millet, potatoes, Indian-corn, &c., are coming up well.	Cholera has re-appeared at Cherra. It has also been brought to Shillong by a survey party from Gowhatty. Precautions are being taken that the disease may not spread in the station.
53	Garo Hills ...	„ 14th	3·20	Showery week, and no wind. Weather between showers hot and close, but it is to be expected at this time of the year that a muggy heat should prevail.	The weather has been most favorable to the crops. Dhan looks forward.	

* Telegram of the 23rd June received on the 24th.

Published for general information.

ALCUTTA, STATISTICAL DEPT.,
The 24th June 1873.

R. KNIGHT,
Asst. Secy. to the Govt. of Bengal.

Weekly Report of Rainfall compiled at the Meteorological Reporter's Office.

Division.	District.	Station.	Rain from 1st to 7th June 1873.	Rain from 8th to 14th June 1873.	Rain from 1st January 1873.		Remarks.
					Inches.	Up to date.	
BENGAL.							
	WESTERN DISTRICTS.		Inches.	Inches.	Inches.	1873.	
BURDWAN.	Burdwan ...	Burdwan	1·34	0·76	11·71	14th June.	
		Cutwa	3·42	0·10	10·21	ditto.	
		Culna	0·97	Nil	7·78	ditto.	
		Bood-Bood	3·15	ditto ...	10·15	ditto.	
		Raneegunge	1·04	0·01	5·49	ditto.	
		Jehanabad	0·53	0·32	6·71	ditto.	
	Bancoorah ...	Bancoorah	1·36	0·10	10·66	ditto.	
	Beerbhoom ...	Sooree	2·55	0·10	5·22	ditto.	
	Midnapore ...	Midnapore	0·95	0·59	13·60	ditto.	
		Tumlook	0·14	0·86	7·72	ditto.	
		Gurbetta	2·51	0·54	9·94	ditto.	
		Contai ... Dy. Collr.'s Office...	0·13	0·80	5·70	ditto.	
		Contai ... Exe. Engr.'s Office	Nil	0·63	7·40	ditto.	
	Hooghly ...	Hooghly	0·83	1·73	10·42	ditto.	
		Serampore	0·22	1·84	9·73	ditto.	
	Howrah ...	Howrah	0·36	2·65	9·65	ditto.	
	CENTRAL DISTRICTS.						
PRESIDENCY.	24-Pergunnahs ...	Saugor Island	0·10	0·70	7·63	ditto.	
		Calcutta	0·43	2·50	9·73	ditto.	
		Alipore... Dispensary ...	Nil	2·55	9·40	ditto.	
		Alipore... Jail	ditto ...	2·30	8·61	ditto.	
		Busseerhaut	0·58	1·38	6·71	ditto.	
		Baraset	Nil	0·29	5·49	ditto.	
		Diamond Harbour... ...	0·88	2·36	9·64	ditto.	
		Barripore	0·86	1·22	11·25	ditto.	
		Satkherah	0·08	1·72	10·07	ditto.	
		Barrackpore	0·55	1·81	9·93	ditto.	
		Dum-Dum	0·24	1·14	8·14	ditto.	
	Nuddea ...	Kishnaghur	1·34	1·20	10·34	ditto.	
		Bongong	Nil	3·08	9·07	ditto.	
		Meherpore	1·61	0·88	9·14	ditto.	
		Choosdangah	2·87	0·81	11·28	ditto.	
		Kooshtea	3·30	0·40	11·27	ditto.	
		Ranaghat	0·18	2·13	7·83	ditto.	
	Jessore ...	Jessore	0·56	0·21	7·89	ditto.	
		Nurail	0·45	1·39	14·34	ditto.	
		Khoolneah	0·60	1·30	13·12	ditto.	
		Jenidah	1·28	0·86	9·87	ditto.	
		Bagirhaut	1·45	1·07	13·93	ditto.	
		Magoorah	0·97	0·39	11·96	ditto.	
RAJSHAHYE.	Moorshedabad ...	Berhampore	1·23	0·20	4·52	ditto.	
		Ramporehaut	0·30	0·40	4·00	ditto.	
		City Moorshedabad ...	0·69	0·15	3·01	ditto.	
		Jungipore	2·42	1·23	6·54	ditto.	
		Azimgunge	1·06	0·30	4·59	ditto.	
		Lalgolla	1·26	0·74	5·27	ditto ...	From 1st February.
	Dinagepore ...	Dinagepore	2·93	8·89	14·28	ditto.	
	Maldah ...	Maldah	1·12	2·32	5·43	ditto.	
	Rajshahye ...	Beauleah	2·74	1·37	7·63	ditto.	
		Nattore	2·74	0·22	9·93	ditto.	
	Rungpore ...	Rungpore	2·71	2·12	15·33	ditto.	
		Bhowanigunge	2·59	0·36	9·98	ditto.	
		Titalya	1·67	17·22	28·78	ditto.	
	Bograh ...	Bograh	2·28	2·07	10·28	ditto.	
	Pubna ...	Pubna	0·95	3·84	16·03	ditto.	
		Serajgunge	2·74	Not rec.	8·77	7th June.	
COOCH BEHAR.	Darjeeling ...	Darjeeling Telegraph Office	Not rec.	ditto ...	14·80	31st May.	
		Darjeeling Hospital ...	1·28	3·56	17·74	14th June.	
	Julpigoree ...	Julpigoree	3·00	21·53	35·53	ditto.	
		Fallacotta	4·83	20·93	43·62	ditto.	
		Bodah	2·67	11·10	24·50	ditto.	
	Cooch Behar Tributary State ...	Cooch Behar	12·64	26·26	51·61	ditto.	
	Bhútan Dooars ...	Buxa	14·39	Not rec.	24·12	7th June.	
	EASTERN DISTRICTS.						
DACCA.	Dacca ...	Dacca ... Telegraph Office ...	3·72	1·33	19·92	14th June.	
		Dacca ... Hospital ...	2·85	0·60	13·85	ditto.	
		Moonshegunge	3·57	1·29	18·66	ditto.	
		Manickgunge	1·14	1·30	12·74	ditto.	
	Furreedpore ...	Furreedpore	2·54	0·77	18·44	ditto.	
		Goalundo	2·24	0·90	11·70	ditto.	
	Backergunge ...	Burrisaul	1·54	1·33	12·68	ditto.	
		Perozepore	2·93	0·27	13·64	ditto.	
		Madaripore	1·15	1·45	19·47	ditto.	
		Patooakhally	5·12	4·15	26·93	ditto.	
		Dowlat Khan	1·15	0·75	15·37	ditto.	
	Mymensing ...	Mymensing	5·21	3·69	16·88	ditto.	
		Jamalpore	4·21	0·60	16·09	ditto.	
		Atteah	2·00	0·35	10·97	ditto.	
		Kishoregunge	3·86	2·73	17·26	ditto.	
	Sylhet ...	Sylhet	9·90	6·10	40·97	ditto.	
	Cachar ...	Cachar	6·06	8·99	38·44	ditto.	
		Hylakandy	2·24	Not rec.	27·18	7th June.	
		Koyah	2·80	9·58	27·40	14th June.	
CHITTAGONG.	Chittagong ...	Chittagong Telegraph Office	0·70	10·10	21·10	ditto.	
		Chittagong Jail	0·59	11·68	23·77	ditto.	
		Cox's Bazar	5·55	5·55	27·29	ditto.	
	Noakhally ...	Noakhally	4·03	1·45	27·77	ditto.	
	Tipperah ...	Comillah	2·75	0·84	17·26	ditto.	
		Brahmanbariah	4·91	2·40	21·69	ditto.	
	Chittagong Hill Tracts	Rungamatee Hill	3·90	5·18	18·68	ditto.	
	Hill Tipperah ...	Hill Tipperah	1·72	1·03	11·02	ditto.	

Division.	District.	Station.	Rain from 1st to 7th June 1873.	Rain from 8th to 14th June 1873.	Rain from 1st January 1873.		Remarks.
					Inches.	Up to date.	
BEHAR.			Inches.	Inches.	Inches.	1873.	
Patna.	Patna	Patna	Nil	1·78	3·08	14th June.	
		Behar	ditto	0·96	2·13	ditto.	
		Barh	ditto	Not rec.	1·45	7th June.	
		Dinapore... Jail	ditto	1·50	2·76	14th June.	
		Cantonment	ditto	0·50	1·05	ditto.	
	Gya	Gya	ditto	0·93	2·34	ditto.	
		Nowadah	ditto	0·31	1·65	ditto.	
		Aurungabad	ditto	Nil	2·26	ditto.	
		Jehanabad	ditto	1·47	2·83	ditto.	
	Shahabad	Arrah	ditto	1·30	3·44	ditto.	
		Sasseram	0·02	1·42	2·75	ditto.	
		Buxar	0·05	0·70	2·13	ditto.	
		Bhuboosh	0·19	Nil	6·05	ditto.	
	Tirhoot	Mozufferpore	Nil	2·14	7·14	ditto.	
		Durbhangah	ditto	1·51	4·02	ditto.	
		Hajipore	ditto	2·37	4·30	ditto.	
		Mudhubani	ditto	3·43	7·54	ditto.	
		Seetamaree	ditto	4·40	7·75	ditto.	
		Tajpore	ditto	2·50	5·72	ditto.	
	Sarun	Chuprah	ditto	1·18	4·17	ditto.	
		Sewan	ditto	1·68	4·38	ditto.	
	Chumparun	Moteehari	ditto	3·95	9·55	ditto.	
		Bettiah	ditto	1·70	6·95	ditto.	
Bhaugulpore.	Monghyr	Monghyr	ditto	1·50	4·77	ditto.	
		Begooserai	ditto	1·13	3·26	ditto.	
		Jamooie	ditto	0·80	2·73	ditto.	
	Bhaugulpore	Bhaugulpore	0·04	3·36	5·23	ditto.	
		Soopool	Nil	2·28	5·18	ditto.	
		Mudheypoorah	0·92	3·97	7·14	ditto.	
		Banka	0·35	2·35	5·73	ditto.	
		Sanborsa	Nil	2·44	5·50	ditto.	
	Purneah	Purneah	ditto	5·66	10·85	ditto.	
		Kishengunge	0·14	3·35	7·30	ditto.	
		Arrareah	0·17	4·96	9·80	ditto.	
	Sonthal Pergunnahs	Deoghur	1·03	0·94	5·67	ditto	
		Jamtara	Not rec.	Not rec.	0·94	31st May.	
		Rajmehal	0·50	0·11	2·56	14th June.	
		Pakour	1·07	0·77	2·14	ditto.	
		Nya-Doomka	2·73	1·37	8·18	ditto.	
		Godda	1·00	1·70	5·73	ditto.	
	ORISSA.						
Orissa.	Cuttack	Cuttack Telegraph Office	Nil	1·10	5·80	ditto.	
		Hospital	ditto	1·20	6·69	ditto.	
		Jajipore	ditto	0·30	8·85	ditto.	
		Kendrapara	ditto	0·60	9·70	ditto.	
		Jugutsingpore	0·50	0·70	7·11	ditto.	
		False Point	Nil	1·00	6·75	ditto.	
	Pooree	Pooree	ditto	0·93	7·08	ditto.	
		Khurdah	ditto	0·65	4·04	ditto.	
	Balasore	Balasore	ditto	2·58	9·85	ditto.	
		Bhuddruck	ditto	0·56	6·13	ditto.	
		Jellasore	ditto	2·46	4·46	ditto	From 1st April.
		Sorah	ditto	0·70	1·17	ditto	ditto.
		Chandbally	ditto	0·70	4·27	ditto	ditto.
	Cuttack Tributary Mehals	Sambalpore	Not rec.	Not rec.	1·69	24th May.	
	CHOTA NAGPORE.						
	SOUTH-WESTERN FRONTIER AGENCY.						
	Hazareebaugh	Hazareebaugh Jail	0·36	0·33	1·96	14th June.	
		Dispensary	1·03	0·20	2·77	ditto.	
		Pachumba	0·95	0·10	3·82	ditto.	
	Loharduggah	Ranchee	Nil	1·16	4·50	ditto.	
		Palamow	0·05	1·44	3·63	ditto.	
	Singbhoom	Chyebassa	0·23	1·76	8·81	ditto.	
	Maunbhoom	Purulia	0·53	0·05	5·89	ditto.	
		Gobindpore	Nil	0·70	4·50	ditto.	
	ASSAM & ADJACENT HILLS.						
	Goalparah	Goalparah	4·91	12·72	38·19	ditto.	
		Dhoobree	4·67	11·20	31·72	ditto.	
	Kamroop	Gowhatty	1·36	5·16	24·00	ditto.	
		Burpettah	1·97	6·61	28·27	ditto.	
	Durrung	Tezpore	4·59	Not rec.	19·97	7th June.	
		Mungledye	2·69	ditto	22·32	ditto	
	Nowgong	Nowgong	2·52	2·05	18·12	14th June.	
	Seebsaugor	Seebsaugor	3·28	Not rec.	31·08	7th June.	
		Golaghat	0·97	ditto	20·30	ditto.	
		Jorehaut	0·65	ditto	17·95	ditto.	
		Nazeerah	Not rec.	ditto	25·10	24th May.	
	Luckimpore	Debrooghur	5·30	ditto	30·94	7th June.	
		North Luckimpore	4·66	ditto	19·60	ditto.	Not received 27th April to 10th May.
		Suddya	3·56	ditto	28·92	ditto.	
	Naga Hills	Samoogoodting	Not rec.	ditto	11·18	24th May.	
	Khasi and Jynteah Hills.	Shillong	0·75	ditto	14·84	7th June.	
		Jaowai	1·97	ditto	16·21	ditto.	
		Cherrapoonjee	18·26	ditto	65·36	ditto.	
	Garo Hills	Tura	3·10	3·20	25·60	14th June.	
		Benares	Nil	Not rec.	0·63	7th June.	
		Akyab	13·50	13·70	41·90	14th June.	

CALCUTTA,
The 21st June 1873.

H. F. BLANFORD,
Meteorological Reporter to the Govt. of Bengal.

Meteorological Telegraphic Report for the period 15th to 21st June 1873.

Stations.	Date.	Hour.	Barometer reduced to 32°.	Barometer reduced to sea-level.	Thermometer.		Humidity Sat. =100.	Wind.		Rain.	Clouds.	Weathe initials
					Dry.	Wet.		Direction.	* Velocity.			
	June											
Calcutta.	15th	10	29·481	29·499	85·2	81·5	84	S S E	...	0·81	......	o
		16	29·393	29·411	91·5	83·5	70	S W	...	...	S	
	16th	10	29·528	29·546	78·5	77·5	95	S E	...	...	......	o, r
		16	29·490	29·508	81·3	81·0	98	S S E	...	0·06	......	o, r
	17th	10	29·547	29·565	84·0	80·0	83	S W	...	0·02	S, CK	
		16	29·458	29·476	89·7	84·0	77	S by E	...	...	K	
	18th	10	29·518	29·536	87·5	80·3	72	S W	...	0·48	C	
		16	29·422	29·440	91·9	84·8	73	S	...	...	S	
	19th	10	29·528	29·546	87·6	82·0	78	S S W	...	0·43	CK, C	
		16	29·449	29·467	92·4	83·8	68	S W	...	...	CK, C	
	20th	10	29·518	29·536	91·7	85·5	77	S W	...	...	......	scuds.
		16	29·435	29·453	95·6	86·2	66	S by W	...	...	C	
	21st	10	29·527	29·545	90·0	83·5	74	W by S	...	...	C	
		16	29·444	29·462	96·5	83·5	56	S by W	...	...	C	
Saugor Island.	15th	10	29·520	29·526	88	85	81	W	19·2	...	N	o, u, m
		16	29·415	29·421	90	84	76	S S W	8·5	...	N	o, m
	16th	10	29·526	29·532	86	83	87	S	6·7	0·20	N	o, m u
		16	29·508	29·514	83	80	87	S E	8·8	...	N	o, u, d
	17th	10	29·565	29·571	84	82	91	S	4·4	1·00	N	o, m
		16	29·472	29·478	89	84	80	S S W	15·5	...	N	o m, scud
	18th	10	29·537	29·543	90	84	76	S W	17·8	...	N	o, m
		16	29·480	29·486	91	85	77	S S W	16·8	...	N	o, m
	19th	10	29·542	29·548	90	83	73	S W	17·3	...	N	o, m
		16	29·485	29·491	91	83	70	S	15·0	...	N	m, scud
	20th	10	29·556	29·562	93	86	74	S W	18·3	...	N	o, m
		16	29·468	29·474	90	86	84	S	15·5	...	N	o, m, scu
	21st	10	29·559	29·565	91	85	77	S	1·2	...	N	o, m, scu
		16	29·475	29·481	92	87	80	S	12·5	...	N	o, m, scu
Chittagong.	15th	10	29·495	29·588	79	78	95	S E	10·2	1·70	K, KS	p, u, g
		16	29·412	29·505	78	77	95	E	7·9	0·20	KS	p, u, g
	16th	10	29·527	29·619	84	79	79	E S E	6·6	...	......	b
		16	29·449	29·541	85	80	79	S S E	14·1	...	K, KS, C	b
	17th	10	29·529	29·622	82	79	87	S S E	10·2	0·40	KS	p, u
		16	29·462	29·554	85	80	79	S S E	6·2	0·10	K, C	b, v
	18th	10	29·537	29·629	83	79	83	E	7·0	0·10	KS	u, g
		16	29·442	29·534	84	80	83	S S E	12·7	...	K	b
	19th	10	29·563	29·655	84	80	83	S E	7·9	0·10	N	d, u, g
		16	29·489	29·581	86	80	75	S	11·8	0·10	CK, KS	b, v
	20th	10	29·584	29·677	78	77	95	S E	9·1	2·80	N	d, u, t
		16	29·494	29·586	84	79	79	S E	8·9	0·10	KS	u
	21st	10	29·568	29·661	82	78	82	S E	5·7	1·80	K, KS	u
		16	29·524	29·616	85	81	83	S S E	5·3	0·40	KS	p, g
Madras.	14th	10	29·756	29·786	93	76	43	W	18	0·17	......	b, c
		16	29·617	29·647	99	77	33	N W	12	...	......	c
	15th	10	29·753	29·783	90	73	41	W S W	14	0·10	......	m
		16	29·600	29·630	97	76	35	S W	11	...	......	c
	16th	10	29·734	29·764	91	75	44	W by N	14	0·14	......	c
		16	29·619	29·649	87	75	55	W by S	8	...	......	cloudy.
	17th	10	29·760	29·790	92	74	39	W by N	12	0·06	......	c
		16	29·624	29·654	90	78	56	S E by E	12	...	......	c
	18th	10	29·740	29·770	94	74	35	W	14	...	......	c
		16	29·598	29·628	92	79	54	N E by E	9	...	......	c
	19th	10	29·741	29·771	93	74	37	W by N	13	...	......	c
		16	29·668	29·698	87	79	68	E S E	7	0·03	......	cloudy.
	20th	10	29·768	29.798	91	73	39	W	14	0·03	......	cloudy.
		16	29·648	29·678	90	77	53	E N E	7	...	......	cloudy
Cuttack.	15th	10	29·467	29·548	91	82	66	W	3·9	...	C, CS	m
		16	29·356	29·437	95	81	52	W	4·3	...	K, N, CK, C	
	16th	10	29·467	29·548	92	80	57	N N W	2·6	...	K, C, CK	
		16	29·427	29·510	82	78	82	S E	4·4	...	N	d
	17th	10	29·525	29·608	81	78	86	S S W	2·9	0·50	N, C	
		16	29·409	29·491	89	82	73	S W	3·9	...	CK, N	d
	18th	10	29·513	29·596	82	80	91	N W	2·9	0·10	N	d
		16	29·391	29·472	92	84	70	S	4·6	...	CK, N, C	
	19th	10	29·510	29.592	84	78	75	W S W	4·6	0·30	S, KS, N, C	
		16	29·437	29·519	85	79	75	W S W	4·7	...	N C	
	20th	10	29·489	29·570	91	82	66	W S W	2·2	...	C	b
		16	29·374	29·455	79	83	53	W S W	5·6	...	CK	m
	21st	10	29·477	29·458	93	81	57	W N W	3·0	...	C, CS	
		16	29·416	29·497	99	83	48	N N E	3·3	...	CS, N, C	
Akyab.	15th	10	29·633	29·655	77	75	90	S W	1·9	...	......	g
		16	29·537	29·559	78	77	95	N	4·3	1·20	......	p
	16th	10	29·620	29·641	86	81	79	S	4·7	1·40	......	b
		16	29·541	29·562	85	81	83	S	7·0	...	......	b
	17th	10	29·659	29·680	86	82	83	S	3·2	0·10	......	b
		16	29·563	29·584	84	79	79	S W	7·1	...	......	b
	18th	10	29·643	29·665	78	78	100	W N W	2·5	2·90	......	r
		16	29·561	29·583	81	79	91	W	0·3	1·00	......	g
	19th	10	29·677	29·698	83	80	87	S S W	0·8	0·60	......	g
		16	29·590	29·612	81	79	91	S W	2·3	1·40	......	r
	20th	10	29·662	29·683	83	81	91	S W	2·5	0·10	......	r
		16	29·596	29·618	78	77	95	N N E	2·8	0·60	......	r
	21st	10	29·643	29·665	80	79	95	E	1·8	2·40	......	d, g
		16	29·570	29·592	81	78	86	S W	0·8	...	......	g

* Velocity of wind in miles per hour.

CALCUTTA,
The 21st June 1873.

H. F. BLANFORD,
Meteorological Reporter to the Government of Bengal.

sults of the Meteorological Observations taken at the Surveyor-General's Office, Calcutta, from 15th to 21st June 1873.

Date.	Mean reduced barometer.	Thermometer. Highest reading.	Lowest reading.	Max. solar radiation.	Mean dry bulb.	Mean wet bulb.	Computed mean dew-point.	Mean degree of humidity.	Wind. Prevailing direction.	Max. pressure.	Daily velocity.	Rain.	Moon's phases.	General Remarks.
	Inches.	°	°	°	°	°	°			lb	Miles.	In.		
15th	29·451	91·5	81·2	121·0	85·4	82·0	79·8	0·83	E S E & variable.	...	97·6			Overcast and stratous. Thunder at 3½ P.M.
16th	·487	83·5	78·5	...	80·8	78·5	78·6	·93	E & S	...	60·0	0·05	...	Overcast. Thunder at 9½ A.M. Lightning on W. at 8 P.M. Light rain after intervals.
17th	·500	90·7	78·0	137·0	86·7	80·2	78·1	·85	S & S W	2·8	81·2	0·60	...	Stratus, cirro-cumuli, & cumuli. Brisk wind between 5½ & 7 A.M. Slight rain at 3 & 7 A.M., and between 4 & 5 P.M.
18th	·470	92·7	78·8	139·0	85·1	81·0	78·6	·81	S S W & S W	...	131·9	0·28	...	Clear, cirro-cumuli and stratoni. Lightning at 8 & 9 P.M. Thunder and rain between 9 and 10 P.M.
19th	·490	93·7	80·0	139·0	86·5	82·0	79·0	·80	S W & S W	...	153·0	...	...	Stratoni and cirro-cumuli. Lightning at 8 P.M.
20th	·491	96·2	83·8	141·5	88·8	84·0	81·1	·80	S W & S	...	113·1	...	...	Stratoni, cirri, & overcast. Lightning on N. E. at 8 P.M.
21st	·491	96·8	85·8	140·0	88·3	83·5	80·1	·75	S S W & S W	...	177·0	...	...	Stratoni, cirri, overcast.

The mean barometer, as likewise the dry and wet bulb thermometer means, are derived from twenty-four hourly observations made during the day.

The dew-point is computed with the Greenwich constants. The figures in Column 10 represent humidity of the air, the complete saturation of which being taken at unity. The receiver of the ar rain gauge is 1½ feet, and that of the anemometer 70 feet 10 inches above the level of the nd. The velocity of wind, as indicated by Robinson's anemometer, is registered from noon to noon.

		°
The extreme variation of temperature during the past seven days	...	18·3
The max. temperature during the past seven days	...	96·8
The max. temperature during the corresponding period of the past year	...	95·0
The mean humidity during the past seven days	...	0·82
The mean humidity during the corresponding period of the past year	...	0·80

		Inches.
The total fall of rain from 15th to 21st ...	by lower rain gauge	0·99
	by anemometer gauge ...	0·92
Ditto ditto ditto,	average of nineteen previous years	3·24
Ditto ditto between the 1st January and the 21st June		10·72
Ditto ditto ditto,	average of nineteen previous years ...	20·85

GOPEENAUTH SEN,
In charge of the Observatory.

The 23rd June 1873.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY—JUBBULPORE LINE.

Approximate Return of Traffic for Week ended 14th June 1873, *on* 223½ *miles open.*

	COACHING TRAFFIC.			MERCHANDISE AND MINERAL TRAFFIC.			
	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.		
		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	
Total traffic for the week	7,465	9,573 6 10	877 11 3	83,668 20	21,992 13 6	2,016 0 3	
Or per mile of railway	......	42 13 4	3 18 6	......	98 6 5	9 0 5	
For previous 23 weeks of half-year...	112,401	3,69,794 12 8	33,897 17 2	1,755,365 0	5,02,677 6 0	46,078 15 2	7
Total for 24 weeks ...	119,956	3,79,368 3 6	34,775 8 5	1,839,033 20	5,24,670 3 6	48,094 15 5	8
COMPARISON.							
Total for corresponding week of previous year	5,826	13,336 2 1	1,222 9 7	83,233 10	21,596 4 11	1,979 13 2	
Per mile of railway corresponding week of previous year	......	59 10 9	5 9 5	......	96 10 0	8 17 2	
Total to corresponding date of previous year	130,584	3,97,257 6 6	36,415 5 3	1,763,452 20	4,98,972 1 5	45,739 2 1	8

EAST INDIAN RAILWAY—MAIN LINE.

Approximate Return of Traffic for Week ended 14th June 1873, *on* 1,280 *miles open.*

		Rs. A. P.	£. s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	
Total traffic for the week	123,061	1,33,805 7 8	12,265 10 0	737,703 0	3,35,510 7 3	30,755 2 6	4£
Or per mile of Railway	......	104 8 7	9 11 8	......	262 1 10	24 0 6	
For previous 23 weeks of half-year...	2,619,100	37,18,482 7 3	340,860 17 10	17,675,092 20	87,59,011 10 9	802,909 8 [illegible]	1,14
Total for 24 weeks ...	2,742,161	38,52,287 14 6	353,126 7 10	18,412,795 20	90,94,522 2 0	833,664 10 7	1,186
COMPARISON.							
Total for corresponding week of previous year	104,376	1,25,566 14 11	11,510 6 0	602,572 0	3,10,722 15 9	28,482 18 10	39,
Per mile of railway corresponding week of previous year	......	98 1 7	8 19 10	......	242 12 0	22 5 1	
Total to corresponding date of previous year	2,668,060	39,05,935 9 10	358,044 1 11	16,473,396 0	90,38,953 7 0	8,28,570 14 9	1,186

EASTERN BENGAL RAILWAY.

Approximate Return of Traffic for Week ended 14th June 1873, *on* 156½ *miles open.*

		Rs. A. P.	£ s. d.	Mds. Srs.	Rs. A. P.	£ s. d.	
Total traffic for the week	33,913	20,423 11 3	1,872 3 6	102,058 14	28,583 0 10	2,620 2 3	4,
Or per mile of railway	217	130 8 0	11 19 3	652 0	182 10 3	16 14 10	
For previous 23 weeks of half-year	785,253	5,82,889 8 8	53,431 14 4	2,934,859 27	9,88,274 13 2	63,070 15 5	116,
Total for 24 weeks	819,166	6,03,313 3 11	55,303 17 10	3,036,918 1	10,16,857 [illegible] 0	65,690 17 8	120,
COMPARISON.							
Total for corresponding week of previous year	31,145½	18,569 13 5	1,702 4 8	[illegible]	15,933 4 10	1,460 11 1	3,
Per mile of railway corresponding week of previous year	199	118 10 6	[illegible]	732 0	101 13 0	9 6 8	
Total to corresponding date of previous year	780,374½	4,90,472 4 1	[illegible]4,959 19 0	3,336,408 38	6,31,432 1 9	57,831 5 9	102,

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City of Calcutta,—June 25, 1873.